

Consolidated Financial Statements

for the Year Ended 31 December 2019



Contents

INDEPENDENT AUDITOR'S REPORT

CC	INSOLIDATED FINANCIAL STATEMENTS	
Co	nsolidated Statement of Financial Position	1
Co	nsolidated Statement of Comprehensive Income	2
Co	nsolidated Statement of Cash Flows	3
Co	nsolidated Statement of Changes in Equity	4
Notes to the	Consolidated Financial Statements	5
1	Principal Activities	5
2	Basis of Accounting Policies and Reporting Presentation	7
3	Critical Accounting Estimates and Judgments in Applying Accounting Policies	18
4	Impact of Economic Conditions on the NBU's Financial Position and Performance	19
5	Funds and Deposits in Foreign Currency and Investment Metals	21
6	Foreign Securities	24
7	SDR holdings	28
8	Domestic securities	29
9	Loans to Banks and Other Borrowers	32
10	IMF Quota Contributions	34
11	Property and Equipment and Intangible Assets	35
12	Other Assets	36
13	Accounts of Banks	37
14	Accounts of Government and Other Institutions	37
15	Certificates of deposit issued by the NBU	38
16	Borrowings received	38
17	Liabilities to the IMF	38
18	Other liabilities	39
19	Liabilities on profit distribution to the State Budget of Ukraine	40
20	Capital Management	42
21	Cash and Cash Equivalents	42
22	Interest Income and Expenses	43
23	Gains on Operations with Financial Assets and Liabilities in Foreign Currency and Monetary Gold	44
24	Gains on Operations with Financial Instruments Measured at Fair Value through Profit or Loss	44
25	Other Income	45
26	Staff Costs	45
27	Administrative and Other Expenses	45
28	Financial Risk Management	46
29	Analysis of Financial Assets and Liabilities by Geographical Concentration Risk	49
30	Credit risk	50
31	Foreign Currency Risk	56
32	Interest Rate Risk	57
33	Liquidity Risk	60
34		62
35	-	63
36	Presentation of Financial Instruments by Measurement Categories	66
37		67
38	Events That Followed the Reporting Date	69



First Biology Comparison First Compariso

 Translation from Ukrainian original

 dit Services LLC
 TOB «Ернст енд Янг

 k Street
 Аудиторські послуги»

 aine
 вул. Хрещатик, 19А

 90 3000
 Київ, 01001, Україна

 90 3030
 Тел.: +380 (44) 490 3000

 er of Auditors
 Факс: +380 (44) 490 3030

 Свідоцтво Аудиторської
 Палати України: 3516

Independent auditor's report

To the Council and the Board of the National Bank of Ukraine

Report on the audit of the consolidated financial statements

Opinion

We have audited the consolidated financial statements of the National Bank of Ukraine and its subsidiary (further - the National Bank of Ukraine), which are presented on pages 5 to 69 and comprise the consolidated statement of financial position as at 31 December 2019, and the consolidated statement of comprehensive income, consolidated statement of cash flows and consolidated statement of changes in equity for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the National Bank of Ukraine as at 31 December 2019 and its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRSs), and comply with the requirements for the preparation of financial statements established by Law of Ukraine "On accounting and financial statements in Ukraine" No. 996-XIV.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report. We are independent of the National Bank of Ukraine in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (including International Independence Standards) (IESBA Code) together with the ethical requirements that are relevant to our audit of the consolidated financial statements in Ukraine, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the IESBA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.



Key audit matters incorporating the most significant risks of material misstatements, including assessed risk of material misstatements due to fraud

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. For each matter below, our description of how our audit addressed the matter is provided in that context.

We have fulfilled the responsibilities described in the Auditor's responsibilities for the audit of the consolidated financial statements section of our report, including in relation to these matters. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the consolidated financial statements. The results of our audit procedures, including the procedures performed to address the matters below, provide the basis for our audit opinion on the accompanying consolidated financial statements.

Key audit matter	How our audit addressed the key audit matter				
Assessment of expected credit loss on debt securities at amortised cost					

As at 31 December 2019, the domestic securities portfolio of the National Bank of Ukraine included debt securities at amortised cost with a total carrying value of UAH 346,204 million, which represented 33% of consolidated total assets (Note 8).

Assessment of expected credit losses on debt securities at amortised cost involves the use of judgments by Management (as disclosed Note 2 and Note 3) as to the assessment of probability of default and loss given default under a range of weighted scenarios; as well as identification of significant increase in credit risk since initial recognition or/and impairment of such debt securities.

Due to the significance of the balance of debt securities at amortised cost to the consolidated financial statements and judgmental nature of expected credit loss assessment, this matter was identified by us as a key audit matter. Among other audit procedures included obtaining an understanding and performing analysis of judgements applied by Management in measurement of expected credit losses on debt securities at amortised cost.

We assessed whether significant increase in credit risk or impairment in respect of such debt securities are present at the reporting date.

We also independently assessed under a range of probability weighted scenarios, with the help of our valuation specialists, amounts of expected credit losses on debt securities at amortised cost and compared to the assessment of the National Bank of Ukraine.

In addition, we analysed disclosures in respect of expected credit loss on debt securities at amortised cost included in the notes to the consolidated financial statements.



Key audit matter

How our audit addressed the key audit matter

Valuation of debt securities at fair value through profit or loss

As at 31 December 2019, the foreign securities portfolio of the National Bank of Ukraine included debt securities with a total carrying value of UAH 504,858 million, which were measured at fair value through profit or loss and represented 48% of consolidated total assets (Note 6). These securities were classified under Level 1, 2 and 3 of the fair value hierarchy.

The debt securities classified as at fair value through profit or loss are valued based on quotes on an active market (Level 1 inputs) or, in case of adjustments, based on adjusted quoted prices (Level 2 inputs), or in absence of quotes on an active market, based on valuation models (Level 3) (Note 35). Judgements applied in respect of inputs may result in different classification within fair value hierarchy and fair value amounts.

We identified valuation of debt securities at fair value through profit or loss as a key audit matter because of judgments applied in fair value measurements as well as due to the significance of the assets to the consolidated financial statements and the impact of changes in valuation on the profit and loss. The audit procedures we performed to address valuation of debt securities at fair value through profit or loss as a key audit matter among others included:

(a) Obtaining understanding of the process of fair value assessments, key sources of inputs and assumptions used by the National Bank of Ukraine to value debt securities

(b) Using our valuation specialists to assess the appropriateness of the methodology and the key underlying assumptions used by Management in fair value measurements of debt securities
(c) Valuing the debt securities of the National Bank of Ukraine independently, using our valuation specialists, based on publicly available market data and comparing their valuation to the valuation of the National Bank of Ukraine

(d) Testing of key inputs (discount rates, cash flows) and recalculating fair value amounts for a sample Level 3 debt securities

e) Analysing of disclosures in respect of debt securities at fair value through profit or loss included in the notes to the consolidated financial statements.

Other matter

The consolidated financial statements of the National Bank of Ukraine as at 31 December 2018 and for the year then ended were audited by another auditor who issued an auditor's report dated 16 April 2019 with unmodified opinion.



Other information included in the National Bank of Ukraine Management Report and National Bank of Ukraine Annual Report for 2019

Other information comprises the information included in the National Bank of Ukraine Management Report, but does not include the consolidated financial statements and our auditor's report thereon, which we obtained prior to the date of this auditor's report, and the National Bank of Ukraine Annual Report for 2019, which is expected to be made available to us after that date. Management is responsible for the other information.

Our opinion on the consolidated financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of management and those charged with governance for the consolidated financial statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with IFRSs, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the National Bank of Ukraine ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the National Bank of Ukraine or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the National Bank of Ukraine financial reporting process.

Auditor's responsibilities for the audit of the consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.



As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the National Bank of Ukraine internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the ability of the National Bank of Ukraine to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the National Bank of Ukraine to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities of the National Bank of Ukraine and its subsidiary to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the National Bank of Ukraine and its subsidiary audit. We remain solely responsible for our audit opinion.

We communicate with the Audit Committee of the National Bank of Ukraine Council regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide the Audit Committee of the National Bank of Ukraine Council with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with the Audit Committee of the National Bank of Ukraine Council, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters.



Report on other legal and regulatory requirements

Pursuant to the requirements of Article 14 paragraph 4 of Law of Ukraine "On audit of financial statements and auditing activity" No. 2258-VIII (the "Law No. 2258-VIII") we provide the following information in our Independent Auditor's Report, which is required in addition to the requirements of International Standards on Auditing.

Appointment of the auditor and period of engagement

We were first appointed as independent auditors to perform a statutory audit of the National Bank of Ukraine consolidated financial statements on 22 October 2019 by the Council of the National Bank of Ukraine for five years term.

Consistency of the independent auditor's report with the additional report to the audit committee

We confirm that our independent auditor's report is consistent with the additional report to the Audit Committee of the National Bank of Ukraine Council, which we issued on 26 March 2020 in accordance with Article 35 of Law No. 2258-VIII.

Provision of non-audit services

We declare that no prohibited non-audit services referred to in Article 6 paragraph 4 of Law No. 2258-VIII were provided. In addition, there are no non-audit services which were provided by us to the National Bank of Ukraine.

The partner in charge of the audit resulting in this independent auditor's report is Studynska Y.S.

For and on behalf Ernst & Young 🌽 ces Ернст енд Яні удиторські Послуги» Каційны од **33306**921 Svistich O.M. ka Y.S. **General Director** ertner UDIE OIOH

Registration number in the Register of auditors and audit firms: 101250

Registration number in the Register of auditors and audit firms: 101256

Kyiv, Ukraine

27 March 2020

Ernst & Young Audit Services LLC is included in the Register of auditors and audit firms, registration number: 3516.

Consolidated Statement of Financial Position

as of 31 December 2019

	Notes	2019	2018
			(UAH millior
Assets			
Funds and deposits in foreign currency and investment metals	5	90,168	116,681
Foreign securities	6	504,979	432,991
SDR holdings	7	234	100
Monetary gold		28,223	27,752
Domestic securities	8	347,191	361,436
Loans to banks and other borrowers	9	13,843	22,145
Domestic public debt		1,727	1,834
IMF quota contributions	10	65,894	77,472
Property and equipment and intangible assets	11	4,386	4,780
Other assets	12	4,188	4,188
Fotal assets		1,060,833	1,049,379
Liabilities			
Banknotes and coins in circulation		425,256	400,334
Accounts of banks	13	78,444	38,509
Accounts of government and other institutions	14	38,982	47,727
Liabilities on profit distribution to the State Budget of Ukraine	19	42,722	64,898
Certificates of deposit issued by the NBU	15	151,932	61,867
Borrowings received	16	2,369	2,769
Liabilities to the IMF except IMF quota contributions	17	171,059	217,300
Liabilities to the IMF with respect to quota settlement	17	65,886	77,462
Other liabilities	18	810	1,006
Fotal liabilities		977,460	911,872
Equity			
Authorized capital	20	100	100
General and other reserves	20	51,439	56,091
Revaluation reserves for assets and liabilities	20	31,790	81,274
Fotal equity		83,329	137,465
Noncontrolling interest		44	42
Total capital		83,373	137,507
Total equity and liabilities		1,060,833	1,049,379

Approved and authorized for issue on behalf of the Board of the National Bank of Ukraine on 26 March 2020.

Governor

Chief Accountant, Director of Accounting Department

Yakiv SMOLII Abguencies Bohdan LUKASEVYCH

Notes on pages 5 through 69 are an integral part of these consolidated financial statements.

Consolidated Statement of Comprehensive Income

for 2019

	Notes	2019	2018
		·	(UAH million)
Interest income	22	36,702	47,908
Interest expenses	22	(16,353)	(13,527)
Net interest income before release of impairment		20,349	34,381
Net release of impairment on major interest bearing financial assets	5,8,9,12	1,668	498
Net interest income after release of impairment		22,017	34,879
Fee and commission income		283	354
Fee and commission expense		(31)	(1,212)
Net fee and commission income (expense)		252	(858)
Result on transactions with financial assets and liabilities in foreign currency and monetary gold	23	(43,441)	(2,223)
Result on transactions with financial instruments at fair value through profit or loss	24	13,431	6.709
Other income	24	1,028	1,019
Total net income	20	(6,713)	39,526
		(0,713)	39,320
Staff costs	26	(1,769)	(1,459)
Costs related to production of banknotes, coins, souvenirs, and other products		(1,146)	(1,001)
Administrative and other expenses	27	(1,372)	(1,320)
(Charge)/ Release of provisions for contingent liabilities		(119)	2,082
Net increase in provisions for other assets	12	(181)	(4)
(Loss)/profit before income tax		(11,300)	37,824
Income tax expense of subsidiary		(7)	(9)
(Loss)/profit for the year		(11,307)	37,815
Other comprehensive income not to be reclassified subsequently to profit or loss:			
Revaluation of investment metals		143	(99)
Other comprehensive (expenses)/income for the year		143	(99)
Total comprehensive (expenses)/income for the year		(11,164)	37,716
(Loss)/profit for the year attributable to:			
National Bank of Ukraine		(11,309)	37,810
Noncontrolling interest		2	5
		(11,307)	37,815
Comprehensive (expenses)/income attributable to:			
National Bank of Ukraine		(11,166)	37,711
Noncontrolling interest		2	5
		(11,164)	37,716

Approved and authorized for issue on behalf of the Board of the National Bank of Ukraine on 26 March 2020.

Requestion

Governor

Chief Accountant, Director of Accounting Department

Director Financial Controlling Department

Notes on pages 5 through 69 are an integral part of these consolidated financial statements.

2

Yakiv SMOLII

Bohdan LUKASEVYCH

Oleh STRYNZHA

Consolidated Statement of Cash Flows

for 2019

	Notes	2019	2018*
			(UAH million)
perating activities			
Interest received		40,007	44,406
Fees and commissions received		284	354
Other income		1,855	1,095
Interest paid		(16,020)	(17,345)
Fees and commissions paid		(46)	(1,222)
Other expenses		(4,862)	(3,474)
Taxes, duties, and charges paid		(403)	(320)
Transfers to the state budget of Ukraine	19	(64,898)	(44,614)
Decrease in loans to banks and other borrowers		10,335	11,897
Domestic public debt repaid		132	132
Increase/(decrease) in accounts of banks on demand		40,052	(1,506)
Increase/(decrease) in accounts of government and other institutions		26,702	(6,171)
(Increase)/decrease in other assets		(1,327)	1,144
(Decrease)/increase in other liabilities		(963)	345
Other cash flows		(908)	(678
Net cash inflows/(outflows) from operating activities		29,940	(15,957)
vesting activities			
Decrease in term deposits placed		-	1,434
Net increase in foreign securities		(128,411)	(25,007)
Purchase of monetary gold		(128)	(29)
Repayment of domestic securities		11,024	13,422
Acquisition of property and equipment and intangible assets		(285)	(124
Sale of property and equipment and intangible assets		79	2
Net cash outflows from investing activities		(117,721)	(10,302)
nancing activities			
Banknotes and coins in circulation	21	24,922	38,575
Proceeds from the loans of the IMF		-	38,309
Repayment of liabilities to the IMF	21	(15,438)	(19,989)
Term deposits (attracted)/repaid	21	(40)	ç
Certificates of deposit issued by the NBU	21	90,022	(5,076
Net cash inflows from financing activities		99,466	51,828
Effect of changes in exchange rates		(38,582)	6,433
Net change in cash and cash equivalents		(26,897)	32,002
Cash and cash equivalents at beginning of the reporting year		116,516	84,514

* Adjusted comparative information as of 31 December 2018 (Note 2).

Approved and authorized for issue on behalf of the Board of the National Bank of Ukraine on 26 March 2020.

Governor

Chief Accountant, Director of Accounting Department

Byreactery Bohdan LUKASEVYCH

Yakiv SMOLII

Notes on pages 5 through 69 are an integral part of these consolidated financial statements.

Consolidated Statement of Changes in Equity

for 2019

	Notes	Statutory capital	General and other reserves	Revaluation reserve for assets and liabilities	Total equity	Noncontrolli ng interest	Total equity
						(UA	H million)
Balance as of 1 January 2018 as restated		100	75,086	89,698	164,884	37	164,92
Total comprehensive income for 2018		-	37,810	(99)	37,711	5	37,7
Gain/(loss) on transfer of assets Realized gain/(loss) on investment	11	-	(232)	_	(232)	-	(23
metals disposed	19	-	181	(181)	-	-	-
Realized gain/(loss) on revaluation of securities disposed and derivatives Allocation of unrealized gain/(loss) on revaluation of securities to revaluation	19	-	530	(530)	-	-	-
reserve Allocation of unrealized gain/(loss) on	19	-	(1,617)	1,617	-	-	-
operations with derivatives to revaluation reserve	19	-	(40)	40	-	-	-
Compensation of unrealized gain/(loss) on revaluation of financial assets and liabilities in foreign currency and monetary gold at the cost of revaluation							
reserve Liability of the National Bank of Ukraine on profit distribution to the State Budget	19	-	9,271	(9,271)	-	-	-
of Ukraine for 2018	19	-	(64,898)	-	(64,898)	-	(64,89
Balance as of 31 December 2018		100	56,091	81,274	137,465	42	137,5
Total comprehensive income for 2019			(11,309)	143	(11,166)	2	(11,16
Gain/(loss) on transfer of assets Realized gain/(loss) on investment	11	-	(248)	-	(248)	-	(24
metals disposed	19	-	173	(173)	-	-	
Realized gain/(loss) on revaluation of securities disposed and derivatives Allocation of unrealized gain/(loss) on	19	-	1,057	(1,057)			
revaluation of securities to revaluation reserve	19	_	(4,677)	4,677	_	_	
Compensation of unrealized gain/(loss) or revaluation of financial assets and liabilities in foreign currency and monetary	ו		(1,011)	1,011			
gold at the cost of revaluation reserve Liability of the National Bank of Ukraine	19	-	53,074	(53,074)	-	-	
on profit distribution to the State Budget of Ukraine for 2019	19	_	(42,722)	-	(42,722)	_	(42,72
Balance as of 31 December 2019		100	51,439	31,790	83,329	44	83,3

Approved and authorized for issue on behalf of the Board of the National Bank of Ukraine on 26 March 2020.

Governor

Chief Accountant, Director of Accounting Department

Bycarley

Bohdan LUKASEVYCH

Yakiv SMOLII

Notes on pages 5 through 69 are an integral part of these consolidated financial statements.

Notes to the Consolidated Financial Statements

1 Principal Activities

The National Bank of Ukraine (hereinafter – the NBU) is Ukraine's central bank. Its operations are governed by Ukraine's Constitution, the Law of Ukraine *On the National Bank of Ukraine*, as well as other Ukrainian laws. The central bank's main statutory function is safeguarding the stability of the Ukrainian national currency. In performing its main function, the NBU must be guided by the priority of achieving and maintaining price stability in the country. The NBU facilitates the stability of the banking system and sustainable economic growth, and supports the economic policies of the Cabinet of Ministers of Ukraine, provided that these do not prevent the NBU from carrying out its primary function of maintaining price stability.

The NBU does not aim to earn profits. The functions of the NBU, as a separate central body of public administration, determine its financial performance and the structure of its assets, liabilities, and capital.

Pursuant to the Law of Ukraine On the National Bank of Ukraine, the NBU performs the following key functions:

defines and implements monetary policy in line with the Monetary Policy Guidelines developed by the NBU Council

solely issues the domestic currency of Ukraine and organizes its circulation

ensures accumulating and safekeeping of the foreign exchange reserves and conducting transactions with reserves and investment metals

acts as the creditor of last resort for banks and makes the refinancing system available

performs banking regulation, as well as individual and consolidated supervision

represents Ukraine's interests in the central banks of other states, international banks and other credit institutions where the cooperation takes place at the level of central banks

performs currency regulation within the competence specified by a special law, establishes the procedure for transactions in foreign currency, carries out currency supervision over banks and other financial institutions licensed by the NBU to conduct currency transactions

arranges and carries out collection of funds and transportation of currency valuables; issues licenses to provide cash collection services to banks, suspends, updates and revokes them, as prescribed by the NBU

defines how Ukraine's banking system operates under a martial law or a state of emergency; ensures emergency preparedness of the NBU system

protects consumer rights in financial services, provided by banks and other financial institutions licensed to provide certain financial services, regulated and supervised by the NBU

organizes the work on and takes measures aimed at improving the financial literacy of the general public

exercises other functions in the area of money and finance within its statutory mandate, envisaged by the Law of Ukraine *On the National Bank of Ukraine.*

Pursuant to the Law of Ukraine *On the National Bank of Ukraine*, the NBU shall grant loans to banks to maintain their liquidity; purchase and sell securities, currency assets, precious metals on the open market; sell commemorative coins made of precious and nonprecious metals in domestic and foreign markets; carry out state debt servicing, related to the placement of state securities, their repayment and payments of the yield thereof; keep the accounts of the State Treasury Service of Ukraine, international organizations' accounts and effect other transactions required to ensure the exercise of its functions. The NBU also performs the function of the depository of state securities of Ukraine.

The NBU's statutory capital is the property of the state.

Under Ukraine's Constitution, the NBU Council's main tasks are to develop Monetary Policy Guidelines and oversee the implementation of monetary policy. In addition, Ukraine's Law On the National Bank of Ukraine gives the Council the mandate to approve the central bank's budget of administrative expenses for the next year, and to make decisions regarding the use of its profit for distribution to augment the central bank's authorized capital. The Council also has the right to take a decision to increase the regulator's statutory capital; to approve its financial statements and reports on the central bank's administrative expense budget and the distribution of profits for distribution; to approve NBU Board decisions on the central bank's participation in international financial institutions; and to perform other functions within its powers, as set forth in applicable Ukrainian laws. The NBU Council creates the Internal Audit Committee to assess the reliability and effectiveness of the NBU's internal controls, as well as the completeness and authenticity of the NBU's financial reporting.

As of 31 December 2019 and 2018, the NBU's structure comprised the Head Office and the Banknote Printing and Minting Works, the central bank's standalone unit. These units operate exclusively within the scope of the NBU's tasks

and functions, as defined by Ukraine's Law *On the National Bank of Ukraine.*

The NBU's subsidiary is the SETTLEMENT CENTER FOR SERVICING FINANCIAL MARKET AGREEMENTS PJSC (hereinafter – the Settlement Center). The NBU's shareholding in the statutory capital of the Settlement Center was 83.55% as of 31 December 2019 (83.55% as of 31 December 2018).

As of 31 December 2019 and 2018, the statutory capital of the Settlement Center totaled UAH 206.7 million and comprised ordinary registered shares with a par value of UAH 1,000 each.

The Settlement Center is the only institution that has a mandate to settle the cash leg of securities and other financial instrument transactions entered into on the stock exchange or in over-the-counter agreements, where the delivery versus payment principle is used. The Settlement Center opens and maintains money accounts for stock market participants. In addition, it ensures the payment of returns on securities, the repayment of the face value when securities are redeemed, and that an issuer performs other corporate transactions, including those related to securities that have been placed and are circulating outside Ukraine.

The NBU is the founder of the Corporate Nonstate Pension Fund (hereinafter – the CNPF). The NBU administrates and stores assets of the CNPF.

The NBU has analyzed whether it has controls required for consolidation in accordance with IFRS 10 *Consolidated Financial Statements* in relation with the CNPF. The NBU is the CNPF's founder, however, it is neither exposed, nor has any rights, to variable returns from its operations. In line with IFRS 10, the NBU does not control the CNPF, and accordingly CNPF data was not consolidated for the purpose of these consolidated financial statements.

As of 31 December 2019, the NBU had investments in an associated company, the National Depository of Ukraine Public Joint Stock Company, an associate (as of 31 December 2018, the NBU's investments in associated companies were represented by the German Ukrainian Fund and the National Depository of Ukraine).

The NBU, the National Securities and Stock Market Commission and other stock market players are shareholders of the National Depository of Ukraine, PJSC (hereinafter– the National Depository). According to its charter, the National Depository conducts depositary record-keeping, and maintains records of securities and issuers' corporate transactions on customers' securities accounts.

As of 31 December 2019, the NBU held 2,580 ordinary registered shares of the National Depository with a par value of UAH 10,000 each, with a total nominal value of UAH 25.8 million (in 2018 – 2,580 ordinary registered shares of the National Depository with a par value of UAH 10,000 each, with a total nominal value of UAH 25.8 million). As of 31 December 2019, the NBU's shareholding in the authorized capital of the National Depository was 25% (25% as of 31 December 2018).

The German-Ukrainian Fund (hereinafter – the GUF) was established by the Cabinet of Ministers of Ukraine – represented by the Ministry of Finance – the NBU, and Kreditanstalt für Wiederaufbau (KfW) (registered in Germany). The core activity of the GUF is to improve the competitiveness of Ukraine's small- and medium-sized enterprises by financing them through authorized Ukrainian banks using GUF funds. As of 31 December 2018, the NBU's shareholding in the authorized capital of the GUF was 31.25%.

In March 2019, as a result of KfW withdrawing as a shareholder, the holdings of the NBU and the Ministry of Finance of Ukraine in the GUF increased to 50% each.

In December 2019, the NBU transferred its share in the GUF's authorized capital to the Ministry of Finance of Ukraine, which resulted in termination of rights by the NBU to manage the GUF's important lines of business activities (Note 12). As of 31 December 2019, the NBU was not the GUF's shareholder, had no control over the GUF and derecognized that investment.

Approval of the Consolidated Financial Statements lies within the competence of the NBU Council.

2 Basis of Accounting Policies and Reporting Presentation

The Consolidated Financial Statements of the NBU have been prepared in accordance with the International Financial Reporting Standards (hereinafter – the IFRS), approved by the International Accounting Standards Board, and the Laws of Ukraine *On the National Bank of Ukraine* and *On Accounting and Financial Reporting in Ukraine* on the preparation of financial statements.

These consolidated financial statements have been prepared on the basis of the assumption that the NBU is a going concern and will continue to operate in the foreseeable future.

These consolidated financial statements have been prepared on a historical cost basis, except for financial assets at fair value through profit or loss and derivative instruments. The consolidated financial statements are presented in the domestic currency of Ukraine, Ukrainian hryvnia, which is the functional and presentation currency of the consolidated financial statements. The NBU Consolidated Financial Statements is prepared in UAH millions.

Basis of Consolidation

These Consolidated Financial Statements include the Financial Statements of the NBU and its subsidiary as of 31 December 2019.

A subsidiary is a company controlled by the NBU. Control is deemed to have place, provided all of the following conditions are met:

- authority over the investee
- rights to variable returns from the investee's operations and exposure to respective risks
- ability to use its power over the investee in order to affect the NBU's performance.

Consolidation of the subsidiary begins from the date the NBU actually assumes control over it (usually the acquisition date) and ceases when the NBU loses such control.

A change in ownership interest in the subsidiary, without losing control over the latter, is recorded as an equity transaction. The subsidiary's losses are attributable to noncontrolling interest, even if this results in the noncontrolling interest with a deficit balance.

If the NBU loses control over the subsidiary, it derecognizes the subsidiary's assets and liabilities (including the respective goodwill), the carrying value of the noncontrolling interest; recognizes the fair value of the consideration received, the fair value of the retained investment, and the result of the transaction, in profit or loss; reclassifies the NBU's share in components, previously recognized in other comprehensive income, to profit or loss. In the event of the disposal of the subsidiary by transferring control to the State, represented by the Cabinet of Ministers of Ukraine, or other public authorities and institutions, the result of such transaction is included in equity. When consolidating the subsidiaries' financial statements, all intra-system balances, including income and expense on transactions between subsidiaries, are excluded. The NBU and its subsidiary use uniform accounting policies in preparing the consolidated financial statements. The financial statements of the subsidiary have been prepared for the same reporting period as the NBU's consolidated financial statements.

Investments in Associates

Associates are the entities over which the NBU has significant influence. Significant influence means the power to participate in the taking of financial and operating policy decisions of the investee, but it does not mean control or joint control over those policies.

Investments in associates are accounted for under the equity method, including recognized impairment, and classified as other assets. Subsequent changes in the carrying value reflect the post-acquisition changes in the NBU's share in net assets of an associate. The NBU's share in the postacquisition profits or losses of associates and the amount of recognized impairment of the investment are recorded in the consolidated statement of comprehensive income as other income or expense. The NBU's share in other changes in the associates' equity that have occurred from the date of investments is recorded in the consolidated statements of comprehensive income and changes in equity. However, if the NBU's share in losses of an associate equals or exceeds its interest in the associate, the NBU does not recognize further losses, except where the NBU is obliged to make further payments to, or on behalf of, the associate. Under the equity method, investments in an associate are recorded until the last day of the month in which the investee fails to meet the criteria of an associate.

Key Measurement Terms

Financial assets and liabilities are initially carried at fair value or fair value taking into account the transaction costs and further accounted for at fair value or amortized cost, depending on their classification.

Fair value is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction in the principal (or most advantageous) market at measurement date under current market conditions (i.e. an exit price) regardless of whether that price is directly observable or estimated using another valuation technique.

The market in which the NBU would normally enter into transactions to sell the asset or transfer the liability is presumed to be the principal market or, in absence of a principal market, the most advantageous market. The NBU should have access to the principal or the most advantageous market at the date of measurement. The NBU measures fair value of an asset or a liability using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

If there is a principal market for the asset or liability, the fair value represents the price in that market (regardless whether that price is directly observable, or it is estimated using another valuation technique), even if the price in a different market is potentially more advantageous at the measurement date.

Such valuation techniques as discounted cash flows and consideration of financial data of the investees are used to measure fair values of certain financial instruments for which external market pricing information is not available. Valuation techniques may require assumptions not supported by observable market data. Disclosures are made in these consolidated financial statements if changes in any such assumptions to a reasonably possible alternative may result in significantly different amounts of profit, income, expense, total assets, or total liabilities.

The NBU uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair values, maximizing the use of relevant observable inputs and minimizing the use of unobservable inputs.

All assets and liabilities for which fair value is measured or disclosed in the consolidated financial statements are categorized within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement taken as a whole:

- Level 1 quoted (unadjusted) market prices in active markets for identical assets or liabilities
- Level 2 valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable
- Level 3 valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

Transaction costs are incremental costs that are directly attributable to the acquisition, issue, or disposal of a financial asset or financial liability. The incremental cost is one that would not have been incurred if the transaction had not taken place. Transaction costs do not include debt premiums or discounts, financing costs, internal administrative or storage costs.

Amortized cost is the amount at which the financial asset or liability was recognized at initial recognition, less any principal repayments, plus or minus the cumulative amortization of any difference between that initial amount and the maturity amount using the effective interest rate method, and for financial assets, adjusted for the amount of provision for credit losses.

The effective interest rate method is a method of calculating amortized cost of financial asset or financial liability and allocating interest income or interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or a shorter period, if appropriate, to the net carrying amount of the financial asset or amortized cost of the financial liability.

The effective interest rate adjusted for the credit risk is the rate at which estimated future cash payments or proceeds are exactly discounted over the expected life of a financial asset to the amortized cost of the initially impaired financial assets.

Transactions in Foreign Currencies and Monetary Gold

Monetary assets and liabilities in foreign currency and monetary gold are estimated according the official hryvnia exchange rate to foreign currencies/accounting prices of investment metals on whichever date comes earlier: settlement date or accrual date of monetary assets and liabilities and later on reassessed each time the official exchange rate/accounting price changes.

As of 31 December 2019 and 2018, the calculation of the official hryvnia exchange rate against the U.S. dollar takes into account the information about all TOD, TOM, and SPOT transactions to buy/sell U.S. dollars that were conducted in the FX market by banks with other banks and with the NBU on the day of the calculation of the official exchange rate and that were reported to the NBU by trading information systems via relevant information exchange channels. As of 31 December 2019, the official hryvnia exchange rate to other currencies was set based on the information on the official hryvnia exchange rate to the U.S. dollar and on BFIX guotes (value of weighted average exchange rate/price quotes Bloomberg Generic Price for foreign currencies on the SPOT market against the U.S. dollar/ the U.S. dollar to foreign currencies according to TIC BLOOMBERG) for currencies for which TIS BLOOMBERG publishes the BFIX quotation on the day the official hryvnia exchange rate is calculated. As of 31 December 2018, the official hryvnia exchange rate to other currencies was set based on the information on the official hryvnia exchange rate to the U.S. dollar and on daily reference exchange rates of currencies to euro released by the European Central Bank and on exchange rate of domestic currencies to the U.S. dollar set by respective central (national) banks. In 2018-2019, the official hryvnia to U.S. dollar exchange rate was set each business day.

Monetary assets and liabilities in foreign currency and monetary gold are reported in the consolidated financial statements according the official hryvnia exchange rate to foreign currencies/accounting prices of investment metals set/estimated by the NBU as of the date of the consolidated statement of financial position.

Monetary gold stands for gold reserves in bullions of global standard and coins not less than 995 fineness that belong to the NBU and make up international reserves. Monetary gold transactions can only be transacted between monetary regulators of different states or between those regulators and international lending institutions. The gold owned by the NBU but included in reserve assets is not recognized as monetary gold.

Monetary gold is reported by weight in Troy ounces and its value in hryvnia according to accounting price of investment metals. Accounting price of investment metals is estimated based on BFIX price quotations in U.S. dollars against investment metals released by TIS BLOOMBERG (or information on the last available price of investment metals received from the website of the London Bullion Market Association or TIC) and the official hryvnia exchange rate against the U.S. dollar.

Gold in foreign banks generating interest is reported as funds and deposits in foreign currency and investment metals (nonfinancial assets) and recognized in the consolidated financial statements at the official price of investment metals as of the date of the consolidated statement of financial position.

The main official exchange rates of hryvnia against foreign currencies/ official price of investment metals used for reporting the monetary items of the consolidated statement of financial position and monetary gold, were as follows:

	31 December 2019 (UAH)	31 December 2018 (UAH)
USD 1	23.6862	27.688264
SDR 1	32.7539	38.508604
Euro 1	26.422	31.714138
1 troy ounce	35,802.17	35,364.835
GBP 1	31.0206	35.131366

Remeasurement of monetary assets and liabilities in foreign currency and monetary gold – as well as gold in foreign banks due to the change in the official hryvnia exchange rate against foreign currencies/ official price of investment metals – are reported as financial results in the consolidated income statement recognized in the period in which they are occurred.

Transactions with the International Monetary Fund

The NBU acts as a depository and a fiscal agent as to the received funds in relations between Ukraine and the International Monetary Fund (IMF). NBU consolidated financial statements show all fund claims of Ukraine to the IMF and liabilities to the IMF for the funds received by the NBU. The respective assets include reported in special drawing rights' (SDR) holdings and IMF quota contributions (including the reserve position of the IMF). The respective liabilities include the value of securities issued to the IMF by the NBU from IMF quota contributions and like a fiscal agent for borrowings, as well as funds on IMF accounts No. 1 and No. 2. The IMF's account No. 1 is used for IMF transactions, including quota subscription payments, purchase and repurchase of funds. Account No. 2 is used for settlements with the IMF in the Ukrainian currency.

Assets and liabilities denominated in SDR, including the IMF quota contributions, are translated into UAH at the NBU's official exchange rate of hryvnia against SDR at the date of the consolidated statement of financial position. The official exchange rate of UAH against SDR is calculated based on the information about the exchange rate of SDR against USD set by the IMF and the NBU's official hryvnia against the U.S. dollar exchange rate. The NBU classifies SDR holdings and IMF quota contributions according to amortized cost.

Return on SDR holdings is recognized as interest income, and charges paid in respect of the use of the IMF's funds are recognized as interest expenses and fees and commissions in the consolidated income statement. Nonreimbursable fees under arrangements of SDR purchases are recorded as fees and commissions. Expenses related to operations with the IMF are amortized using the effective interest rate method and recorded as interest expense.

Transactions with Financial Instruments

The NBU classifies all financial assets into the categories that are at fair value through profit or loss and at amortized cost depending on the models determined to manage financial assets and cash flows characteristics. The NBU does not classify any assets into the category at fair value through profit or loss in order to remove or reduce significantly accounting discrepancies. Financial assets of the NBU are classified as follows:

Funds and Deposits in Foreign Currency at Amortized Cost

Funds and deposits in foreign currency are recorded when the NBU advances foreign currency funds to counterparty banks within a model for management of financial assets which objective is to collect contractual cash flows. Those funds are not related to derivative financial instruments, not quoted in the market, and repayable on fixed or determinable dates.

Debt Securities at Amortized Cost

This category includes the securities in respect of which both of the following conditions are met:

- Securities are held within the model for management of financial assets under which securities are held to collect contractual cash flows.
- Contractual terms set cash flows on specified dates that are solely payments of securities' principal and interest on the principal amount outstanding.

Such securities mainly include domestic government debt securities with fixed coupons and domestic government debt securities with coupon calculated as inflation index for the last 12 month plus determined margin (hereinafter referred to as "indexed government bonds"). The NBU recognizes indexed government bonds as instrument with a floating interest rate and accrues interest income using effective interest rate. At the same time, the effective interest rate is reviewed monthly based on actual inflation rate for the reporting period and not based on inflation rate forecasts.

Debt Securities at Fair Value through Profit or Loss

The NBU manages a group of such financial instruments in accordance with a documented model for management of financial assets, which relates to types other than model for managementr of financial assets to collect cash flows and model of management of financial assets to both collect cash flows as set by contractual (issue) terms and to sell those assets.

Also, this category includes the securities that do not meet the criteria of measurement at amortized cost or at fair value through other comprehensive income due to the outcome of completed analysis for characteristics of financial assets cash flows which is not solely payments of principal and interest on the principal amount outstanding.

The fair value of these securities is determined by reference to market quotations at the principal or most beneficial markets, if no quotations are available, based on the valuation model (Note 35).

Change in Classification

Securities may be reclassified – as an exception between categories (at amortized cost, at fair value through profit or loss, or at fair value through other comprehensive income) – if the model of financial assets management changes. Classification and measurement requirements related to the new category applied prospectively from the first day of the reporting period after the changes to the model for financial asset management that led to reclassification were recognized.

Loans to Banks and Other Borrowers at Amortized Cost Loans to banks and other borrowers are recognised when the NBU lends money to counterparty banks or other borrowers within the model for financial assets management, which objective is to collect contractual cash flows and these contractual cash flows represent solely payments of principal and interest on the principal amount outstanding.

Domestic public debt

Domestic public debt includes loans granted to the Government of Ukraine. Domestic public debt is reported under the model for financial asset management intended to collect contractual cash flows, which are solely payments of principal and interest on the principal amount outstanding. The domestic public debt is subsequently measured at amortized cost.

Derivative Financial Instruments

Derivative financial instruments are represented by derivative securities, swaps, forwards, and futures contracts. Derivative financial instruments are measured at fair value through profit or loss. All derivatives are recorded as assets if their fair value is positive and as liabilities if the fair value is negative.

Recognition and Measurement of Financial Instruments Financial instruments are recognized as follows:

transactions with financial instruments are recorded in the consolidated statement of financial position at a settlement date, which is the date when the title to these assets is transferred to (from) the NBU, other than derivative financial instruments

debt securities, equity instruments, and other financial instruments measured at fair value through profit or loss are initially recorded at fair value as of the settlement date

foreign currency funds and deposits, debt securities at amortized cost, loans to banks and other borrowers, and all financial liabilities (except for derivative financial instruments) are initially recorded at fair value as of transaction date less transaction costs.

The best evidence of the fair value of a financial instrument at initial recognition is normally the transaction price (i.e. the fair value of the consideration given or received). If the NBU determines that the fair value at initial recognition differs from the transaction price, it accounts for that instrument at that date as follows:

at the estimated value, if the fair value is evidenced by a quoted price in an active market for an identical asset or liability (i.e. a Level 1 input) or based on a valuation technique that uses only data from observable markets. The NBU recognizes the difference between the fair value as of the transaction date and the transaction price as profit or loss (except for transactions with the owner recognized within the NBU's equity)

in all other cases, at the estimated value, adjusted to defer the difference between the fair value as of the transaction date and the transaction price. After initial recognition, the NBU recognizes that deferred difference as a profit or loss only to the extent that it arises from a change in a factor (including time) that market participants would take into account when pricing the asset or liability.

Subsequent measurement of the NBU's financial instruments is as follows:

debt securities, equity instruments, other financial instruments at fair value through profit or loss, and derivative financial instruments are remeasured after each change in their fair value. Results from changes in fair value are recognized in profit or loss of the consolidated statement of other comprehensive income in the period in which they arise Foreign currency funds and deposits, debt securities at amortized cost, loans to banks and other borrowers, as well as the domestic public debt and other financial liabilities, other than derivatives, are measured at amortized cost using the effective interest rate method.

Financial Assets Impairment Policy and Principles of Recognition of Allowances for Expected Credit Losses During estimation of impairment and assessment of expected credit losses for financial assets the NBU is guided by requirements of IFRS 9: Financial Instruments.

Allowance for expected credit losses are recorded through recognition of respective changes in allowance as expenses (as part of *Net decrease in major interest bearing financial assets* and *Net increase in allowance for other assets* lines of the consolidated statement of comprehensive income.

The NBU recognizes allowances for expected credit losses on financial assets (deposits granted, loans at amortized cost, debt securities at amortized cost, accounts receivable) and allowances for credit related commitments.

An allowance for expected credit losses is measured in the amount of credit losses over the expected life of the financial instrument if the credit risk on that financial instrument has increased significantly from the date of its initial recognition. Otherwise, the allowance for expected credit losses is measured in the amount equal to 12-month expected credit losses. The NBU's policies in respect of determining credit risk are disclosed in Note 28.

The NBU reports its financial instruments as one of the following impairment stages:

Impairment Stage One (Stage 1): financial instruments with no significant increase in credit risk as of the reporting date since initial recognition

Impairment Stage Two (Stage 2): financial instruments with a significant increase in credit risk at the reporting since initial recognition, but with no objective evidence of impairment present

Impairment Stage Three (Stage 3): financial instruments with the objective evidence of impairment as of the reporting date

Originated credit-impaired financial assets: financial assets with the objective evidence of impairment at the date of initial recognition.

As of the transaction date, financial assets, other than purchased or originated credit-impaired financial assets, are classified at Impairment Stage One.

Depending on the impairment stage for financial assets, allowances for expected credit losses are recorded at an amount equal to expected credit losses:

- 12-month ECLs for the financial assets at Impairment Stage One
- full lifetime ECLs for the financial assets at Impairment Stages Two or Three.

Purchased or originated credit-impaired financial assets are recorded at fair value with the subsequent recognition of interest income at credit-adjusted effective interest rate.

Subsequent to initial recognition, allowances for expected credit losses of originated credit-impaired financial assets are charged or released only in case of change in expected credit losses and recognized as part gain on release or loss on charges of allowances for expected credit losses.

Allowances for expected credit losses are charged and released pursuant to decisions of the NBU Board at least on a monthly basis (for accounts receivable and other financial assets under contracts – at least once a quarter) as of the end of the last business day of the month/quarter.

To determine the impairment stage at each reporting date for financial assets by individual instruments, credit risk is assessed on an individual basis in order to establish:

- a significant increase in credit risk since initial recognition
- objective evidence of impairment.

The NBU determines criteria for significant increase in credit risk of financial instruments mainly based on the change in rating of a borrower and counterparty since the date of initial recognition (Note 28).

Objective evidence of impairment for financial assets includes information about the following loss events:

significant financial difficulties experienced by the borrower or the issuer

breach of contract by the borrower or breach of the issuance conditions by the securities issuer

possibility of bankruptcy or other financial reorganization of the borrower or the issuer

granting to the borrower or issuer concessions associated with financial difficulties of the borrower that the lender would not otherwise consider (such as a change in the interest rate or extension)

observable data indicating that there is a measurable decrease in the estimated future returns from a group of financial assets since the initial recognition of those assets.

The NBU estimates its impairment losses on individual and collective basis.

Assessment on individual basis is applied for financial assets for which objective evidence of impairment were identified, and assets that are government related obligations, obligations guaranteed by the government, or obligations of state-owned enterprises and organizations (including stateowned banks and the Deposit Guarantee Fund (DGF)).

Assessment on collective basis is applied for financial instruments with common credit risk characteristics (for example, deposits in foreign banks are grouped by credit ratings set by international rating companies like Fitch Ratings, Moody's, and Standard & Poor's; and Ioans issued to Ukrainian banks to support liquidity – according to ratings set by the NBU's internal methodology).

Credit losses on accounts receivable and other financial assets under contracts are assessed by a simplified method.

In the event the amount of expected credit losses decreases as a result of the events that evidence the decrease in credit risk on the financial instrument, the amount of such allowance for financial instrument is reversed. The amount of decrease in expected credit losses is reported as profit or loss in the consolidated statement of other comprehensive income.

Unrecoverable financial assets are written off partially or completely against the created allowance for expected credit losses upon completion of all required procedures on the asset recoverable amount, when there are no reasonable expectations as to recovery of contractual cash flows.

Change in terms (modification) of financial assets

If contractual terms of financial asset change significantly, the NBU derecognizes such an asset and recognizes a new financial asset at fair value with recognition of result in profit or loss in the consolidated statement of comprehensive income.

If the change in terms not significant, the gross carrying amount of those assets are adjusted. The adjustment amount is determined as a difference between the present value of new cash flows under revised terms discounted at the original effective interest rate (or the current effective interest rate, if loans are granted at floating rates), and the gross carrying amount of the financial asset at the date of the terms' revision and is recognized as income/expenses on change in terms (modification) of financial assets' in the consolidated statement of comprehensive income.

Repo Transactions

Funds paid under the agreements for purchase and sale of securities with counterparty banks with repurchase obligation (repo) are recorded as loans to banks. The difference between the purchase and resale prices is treated as interest income recognized over the life of the repo agreements using the effective interest rate method.

Funds received under repo agreements are included in accounts of banks in the consolidated statement of financial position. The securities sold under repo agreements are retained as the assets of the NBU. The difference between the sale and repurchase prices is treated as interest expense and accrued over the life of the repo agreement using the effective interest rate method.

Property and Equipment

Property and equipment (PE) items are carried at historical cost, less accumulated depreciation and impairment loss.

Historical cost of acquired PE items includes the costs on acquisition and set-up.

Costs of enhancement of any PE item which increases the expected economic benefits are included in the cost of such PE items. Costs on minor repairs and maintenance are expensed when incurred. Costs of replacing major parts or components of PE items are capitalized and the residual value of the replaced part is charged to expenses in the consolidated income statement of the reporting period.

In case of impairment of PE the cost is reduced to the expected recoverable amount representing higher of two estimates : fair value less cost to sell or value in use. Writedown of the carrying amount is recognized in profit or loss in the consolidated statement of comprehensive income. Impairment of assets recognized in previous periods is reversed if change in estimates used to determine the expected recoverable amount occurred.

Profits or losses on disposals determined as the difference between the proceeds and the asset's carrying amount are recognized in profit or loss of the consolidated statement of comprehensive income.

Capital investments in progress are carried at historical cost. Upon completion, assets are transferred to buildings and constructions at historical cost. Capital investments in progress are not depreciated until the asset is ready for use.

Noncurrent Assets Held for Sale

The NBU recognizes its noncurrent assets as held for sale when the carrying amount of assets is recovered through sale rather than use in operating activity.

To recognize noncurrent assets as held for sale, assets should be ready for their immediate sale, and such a sale should be highly probable.

Noncurrent assets held for sale are recognized at lower of: carrying amount or fair values less costs to sell. If carrying amount of items as of the date of recognition as held for sale exceeds their fair value, then such items are written down.

Investment Property

Investment property items include:

- the land a future designation of which is undetermined
- a building not occupied by the NBU and designed for renting out under one or several leases
- a building owned by the NBU or managed under lease agreement and rented out under one or several lease agreements

 immovable property under construction or improvement for future use as investment property.

The NBU carries its investment property at cost. Investment property items are depreciated using the straight-line method.

The NBU recognizes its investment property using the following criteria:

- Immovable property is transferred under leases.
- Immovable property is removed from the list of property used by the NBU (by the NBU's resolution on the decision to rent out the immovable property).
- Economic benefits are received, which are related to such investment property.
- It is probable to estimate reliably the cost of immovable property.

In the event one item of investment property is held to receive rentals and the other part is held for use in operations, then such items of investment property are recognized separately if they can be disposed of separately.

Expenditures on current maintenance of investment property are recognized as expenses when they arise. Expenditures on enhancement of investment property items that lead to increase in initially expected benefits from their use increase the historical cost of those items.

Investment property that begins to be held for sale is classified as assets held for sale.

Investment property items are derecognized in the event changes occur in the mode of their functional use.

Depreciation of PE and Investment Property

Depreciation of property, plant and equipment commences in the month following the commissioning of assets and ceases upon disposal of assets or at completely depreciated PE (in case of the later, useful life is reviewed and adjusted as necessary). Depreciation is calculated using the straight-line method for an even decrease in historical cost to residual value over the estimated useful lives as follows:

buildings and	d facilities	20–50 years	6			
vehicles				7–28 years		
machinery a	nd equipme	ent		4-20 years		
tools, fixtures, and fittings				4–10 years		
other fixed a	ssets			2–25 years.		
Land and depreciated		investments	in	progress	are	not

The residual value of an asset is the estimated amount that the NBU would currently obtain from disposal of the asset, less the estimated costs of disposal, if the asset is out-of-date and in the condition expected at the end of its useful life. The residual value of an asset is equal to nil if the NBU expects to use the asset until the end of its useful life.

Intangible assets

All of the NBU's intangible assets have definite useful lives and primarily include computer software and licenses for its use.

The historical cost of acquired intangible assets includes the costs incurred to acquire and bring them to use. Acquired intangible assets are amortized on a straight-line basis over the expected useful lives from 2 to 8 years and subsequently measured at historical cost, less accumulated amortization and impairment loss.

Investment Metals and Other Precious Metals

Investment metals include stocks of gold (other than monetary gold), silver, platinum, and palladium held at the State Treasury of Ukraine. Investment metals are accounted at their physical weight in troy ounces and their value in hryvnias at the official price of investment metals. The official exchange rates of hryvnia against investment metals (official price of investment metals) at which the metals are carried in the consolidated financial statements were as follows:

	31 December 2019 (UAH)	31 December 2018 (UAH)
1 troy ounce of gold	35,802.17	35,364.835
1 troy ounce of silver	423.27	416.847
1 troy ounce of platinum	22,532.45	21,956.793
1 troy ounce of palladium	44,989.33	34,776.460

Unrealized revaluation gains or losses from investment metals due to changes of the official price of investment metals are included in other comprehensive income in the consolidated statement of comprehensive income for the period when they emerged. Realized revaluation gains or losses from investment metals are included in retained earnings.

Investment metals placed on interest bearing deposits with foreign banks are included in 'Funds and deposits in foreign currency and investment metals'. Revaluation gains or losses from investment metals placed with foreign banks due to changes of the official price of investment metals are included in other comprehensive income in the consolidated statement of comprehensive income for the period when they emerged.

Precious metals that include gold ingots that do not meet the defined standards, gold scrap and scrap of other metals are accounted at their cost in stocks of tangible assets.

Investment and precious metals are included in 'Other assets' in the consolidated statement of financial position.

Banknotes and Coins in Circulation

The amount of banknotes and coins in circulation is the nominal value of banknotes and coins (small, circulating, commemorative, investment) that are legal tender and issued into circulation by the NBU after the hryvnia introduction in September 1996. Banknotes and coins in circulation are recognized as liabilities at the nominal value after their disbursement to banks and customers of the NBU. Cash in domestic currency stored in the NBU's vaults and cash desks or transferred by the NBU to custody at authorized banks, is excluded from the amount of banknotes and coins in circulation.

Accounts of Banks

Accounts of banks are recognized when the NBU receives the funds from counterparty banks. These liabilities are not derivative instruments and are initially recognized at fair value less transaction costs and are subsequently measured at amortized cost.

Accounts of Government and Other Institutions

Accounts of government and other institutions are nonderivative liabilities to government and other customers, they are initially recognized at fair value less transaction costs, and are subsequently measured at amortized cost.

Certificates of Deposit Issued by the NBU

Certificates of deposit issued by the NBU are initially recognized at fair value including transaction costs, and are subsequently measured at amortized cost using the effective interest rate method.

Borrowings Received

Borrowings received are initially measured at fair value including transaction costs and subsequently measured at amortized cost applying the method of effective interest rate.

Income and Expenses Recognition

Interest income and expenses are recognized in the consolidated statement of comprehensive income for all debt instruments, excluding debt securities at fair value through profit or loss, on an accrual basis using the effective interest rate method:

for financial assets in the first and the second stage of impairment – based on the gross book value

for financial assets in the third stage of impairment – based on the amortized cost

for purchased or originated credit-impaired financial assets – applying the credit-adjusted effective interest rate to amortized cost.

Interest income on debt securities at fair value through profit or loss is measured based on the nominal interest rate and recognized in the consolidated statement of comprehensive income in results on transactions with debt securities measured at fair value.

All other fees and commissions and other income and expenses are recognized on an accrual basis depending on completion of a specific transaction assessed as a ratio of the actual services provided (received) to the total contractual services to be provided.

Unrealized gains or losses from remeasurement of assets and liabilities are recognized as a result of changes of the hryvnia exchange rate to foreign currencies, monetary gold, official price of investment metals during the reporting year and also due to remeasurement of securities, derivatives, and other financial instruments at their current fair value.

Income or expenses resulted from remeasurement of assets and liabilities are recognized as realized at disposal or redemption of the respective remeasured assets and liabilities to the extent of the unrealized amounts as of the dates of such disposals or redemptions.

Income or expenses from revaluation of foreign currencies, monetary gold, and investment metals are recognized as realized at the end of the reporting month in the case of outflows of foreign currencies, monetary gold, and investment metals for the respective month, which are measured as reduction of the total open position in foreign currencies, monetary gold, and investment metals in the amount proportionate to the reduction amount.

Costs Related to Production of Banknotes, Coins, Souvenirs, and Other Products

The NBU produces banknotes and coins of the Ukrainian national currency. Costs associated with the banknotes and coins production (other than commemorative coins made of precious metals, and investment coins) are designated as the NBU's expenses when the produced banknotes and coins are transferred by the Printing and Minting Works to the Central Vault of the NBU. Expenses for the banknotes and coins production include depreciation of plant and machinery, staff costs, and other production costs.

Costs associated with the production of commemorative coins made of precious metals and investment coins less their nominal value are recognized as an asset in 'Other assets' of the NBU's consolidated statement of financial position and are recognised as expenses in the periods when the coins are sold.

Staff Costs

Payroll expenses, payments of the social security tax, transfers of contributions to the NBU's Corporate Nonstate Pension Fund, as well as expenses incurred on staff training and development are recognized for the periods when they are incurred.

NBU Corporate Nonstate Pension Fund

The NBU is the founder of the Corporate Nonstate Pension Fund, which is a fund with defined contributions. The NBU pays the contributions to the fund on contractual terms. After the contributions have been paid, the NBU bears no obligations for pension payments. Contributions to the fund are recognized as staff costs when they are due. Upon retirement of the NBU's employees, all benefits are paid by the NBU Corporate Nonstate Pension Fund.

The NBU acts as the administrator, asset manager and the custodian of the NBU Corporate Nonstate Pension Fund.

Taxation and transfer of distributable profits to the State Budget of Ukraine

Pursuant to the Tax Code of Ukraine, the NBU makes settlements with the State Budget of Ukraine in accordance with the Law of Ukraine *On the National Bank of Ukraine*.

The NBU transfers the distributable profits to the State Budget of Ukraine pursuant to the Law of Ukraine *On the National Bank of Ukraine*. The distributable profit is calculated by decreasing the profits by amounts of unrealized gains for the reporting period transferred to the revaluation reserves and by increasing the profits by amounts of compensation of unrealized losses on revaluation reserves and realized gains. These transfers are treated as distributions to owners and are recorded in the consolidated statement of changes in equity (Note 19).

Other taxes payable by the NBU are included in administrative and other expenses.

Revaluation Reserves for Assets and Liabilities

Pursuant to the Law of Ukraine *On the National Bank of Ukraine* unrealized gains on revaluation of foreign currency and monetary gold due to changes in the official hryvnia exchange rate against foreign currencies and monetary gold during the reporting period, as well as unrealized gains on revaluation of securities and derivative financial instruments to their fair values and unrealized gains or losses on revaluation of investment metals due to changes in the official price of investment metals are transferred by the NBU to 'Revaluation reserve for assets and liabilities' within 'Equity' in the consolidated statements of financial position and changes in equity.

The revaluation reserve is used to compensate for unrealized losses on revaluation of foreign currencies, monetary gold, securities, and derivative financial instruments at fair value, should they accumulate during the reporting year.

The revaluation reserve for foreign currencies, monetary gold, securities, and derivative financial instruments is included in distributable profits in the respective reporting periods.

Provisions for Contingent Liabilities

NBU provisions for contingent liabilities include provisioning for legal or constructive obligations (resulting from past events), particularly under lawsuits the settlement of which is very likely (an adverse scenario being more probable than a positive one) to cause an outflow of resources that carry economic benefits and amounts (expenses) that can be reliably measured. Provisions for contingent liabilities are included in profit or loss in the consolidated statement of comprehensive income for the period when they emerged (Note 18).

Cash and cash equivalents

For the purposes of reporting cash flows, cash and cash equivalents include cash in foreign currencies, SDR holdings, financial assets on demand and deposits in foreign currencies maturing within three months from the origination date and which are available for use at short notice and are subject to insignificant risk of value fluctuations.

Offsetting

Financial assets and liabilities are offset and the net amount is subsequently reported in the consolidated statement of financial position only when there is a legally enforceable right to offset the recognized amounts, and there is an intention to either settle on a net basis, or to realize the asset and settle the liability simultaneously. Introduction of new and amended standards and interpretations of the financial statements

Amended IFRS and interpretations that came into effect were adopted on 1 January 2019.

IFRS 16: Leases (effective for annual reporting periods beginning on or after 1 January 2019). IFRS 16 specifies how a reporting entity should recognize, measure, present, and disclose leases. The standard introduces a single lessee accounting model and requires a lessee to recognize assets and liabilities for all leases with a term of more than 12 months, unless the underlying asset is of low value. IFRS 16: Leases substantially carries forward the lessor accounting requirements in IAS 17: Leases. Accordingly, a lessor continues to classify its leases as operating leases or finance leases.

Amendments to IFRS 9: Financial Instruments – Prepayment Features with Negative Compensation. The amendments remedy an unintended consequence to the notion of 'reasonable additional compensation'.

The amendments allow for financial assets with a prepayment option that could result in the option's holder receiving compensation for early termination to meet the SPPI condition, if specified criteria are met.

In addition to that, the IAS Board has discussed the accounting for financial liabilities, the modification or exchange of which do not result in derecognition. According to the review findings, two paragraphs were added on the aforesaid issues, where the IAS Board observed that the accounting in such cases is the same as it is for modifying a financial asset. This does not lead to derecognition. In particular, if the gross carrying amount of a financial asset (amortized cost of a financial liability) is changed, it will lead to an immediate gain or loss in profit or loss at the date such a financial asset (financial liability) is changed.

The amendments apply retrospectively to annual reporting periods beginning on or after 1 January 2019. There are specific transition provisions depending on when the amendments are first applied, relative to the initial application of IFRS 9: Financial Instruments.

Other adopted standards and amendments:

IFRIC 23: Uncertainty over Income Tax Treatments

IAS 28: Investments in Associates and Joint Ventures stipulating that explanations for decisions to measure investments at fair value through profit or loss must be provided separately for each investment¹

Amendment to IAS 19: Employee Benefits (February 2018) – Plan Amendment, Curtailment or Settlement¹

Annual improvements to IFRS in 2015–2017 (amendments to IFRS 3, IFRS 11, IAS 12, IAS 23).

The amended IFRS and interpretations did not have significant impact on the NBU's performance i and financial position.

New and revised standards that have been issued but are not yet effective

Amendments to IFRS 10: Consolidated Financial Statements and IAS 28: Investments in Associates and Joint Ventures – Sale or contribution of assets between an investor and its associate or joint venture³

IFRS 17: Insurance Contracts, is a new financial reporting standard for insurance contracts that determines recognition and measurement, presentation and disclosure of information²

Amendments to IAS 1 and IAS 8 are intended to simplify the definition of 'material' in IAS 1, however do not amend the main concept of 'material' in the Standards. Definition of 'material' in IAS 8 was replaced with a reference to IAS 1¹

Amendments to references to the IFRS Conceptual Framework for Financial Reporting¹

Amendments to IFRS 3: Business Combinations¹

Amendments to IFRS 9, IAS 39 and IFRS 7: Reform of the Base Interest Rate¹.

The NBU did not apply the above mentioned new and revised standards early. The NBU's management anticipates that the application of the standards mentioned above will not have a significant effect on the NBU's performance and financial position.

¹ The amendments apply to annual reporting periods beginning on or after 1 January 2020, however early application will be permitted.

²The amendments apply to annual reporting periods beginning on or after 1 January 2023, however early application will be permitted.

³ The amendments apply to annual reporting periods beginning on or after a date to be specified. Early application is permitted.

Approach to presenting gross carrying amounts and allowances for expected credit losses

The following approach is applied to disclosing gross carrying amounts: the consolidated financial statements include changes in gross carrying amounts and allowances for expected credit losses only for the financial assets with existing outstanding amounts as of the start and/or end of the reporting period.

Change in accounting policy regarding cash and cash equivalents

In 2019, the NBU changed its accounting policy regarding definition of cash equivalents. According to the new policy, foreign securities with maturities of up to three months are not included in cash equivalents and respective cash flows are presented within investment activities..

The NBU's management believes that such accounting policy is more relevant and compliant with the purpose of cash equivalents, and gives a more fair presentation of substance and economic reality of these assets as the business purpose of these foreign securities is to manage foreign currency reserves, as opposed to be a part of liquidity management.

The effect of the accounting policy change on the consolidated financial statements is presented in the tables below.

Amendments to the Cash and Cash Equivalents Note:

	As presented in the financial statements as of 31 December 2018	The effect of the accounting policy change	Adjusted comparative information as of 31 December 2018
			(UAH million)
Foreign securities with maturities of up to three months	22,725	(22,725)	_
Total for cash and cash equivalents	139,241	(22,725)	116,516

	As presented in the financial statements as of 31 December 2017	The effect of the accounting policy change	Adjusted comparative information as of 31 December 2017 (UAH million)
Foreign securities with maturities of up to three months	50,456	(50,456)	_
Total cash and cash equivalents	134,970	(50,456)	84,514

Changes to the consolidated cash flow statement:

	As presented in the financial statements as of 31 December 2018	The effect of the accounting policy change	Adjusted comparative information as of 31 December 2018 8
	· · · · · · · · · · · · · · · · · · ·		(UAH million)
Investment activity			
Net increase in foreign securities	(52,738)	27,731	(25,007)
Net cash outflows from investment activity	(38,033)	27,731	(10,302)
Net flows of cash and cash equivalents	4,271	27,731	32,002
Cash and cash equivalents at the start of the reporting year	134,970	(50,456)	84,514
Cash and cash equivalents at the end of the reporting year	139,241	(22,725)	116,516

Reclassification

As of 31 December 2018, the following reclassifications have been to conform to the presentation in the consolidated statement of financial position as of 31 December 2019:

Liabilities	As presented in the financial statements as of 31 December 2018	Reclassifications	Adjusted comparative information as of 31 December 2018 (UAH million)
Banknotes and coins in circulation	400,119	215	400,334
Other liabilities	1,221	(215)	1,006

In the consolidated statement of comprehensive income:

	As presented in the financial statements as of 31 December 2018	Reclassifications	Adjusted comparative information as of 31 December 2018
			(UAH million)
Statement of comprehensive income			
Result on transactions with debt securities measured at fair value	6,668	(6,668)	_
Result of transactions with financial instruments other than debt securities measured at fair value	41	(41)	-
Result on transactions with financial instrument measured at fair value	-	6,709	6,709

Additionally, the reclassification have been made of expenses on the financial assets with a negative interest rate and the reclassification of expenses of the Banknote Printing and Minting Works, which are excluded from cost of production. Information on these reclassifications is disclosed in Notes 22 an 27.

3 Critical Accounting Estimates and Judgments in Applying Accounting Policies

The NBU uses estimates, assumptions, and professional judgment that affect the amounts of assets and liabilities reported in the consolidated financial statements. Estimates and judgments are regularly revised and are based on NBU management's experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The most significant estimates and judgments are outlined below.

Measurement of expected credit losses for demand deposits and term deposits in foreign currency and monetary gold

The NBU regularly reviews demand deposits and term deposits in foreign currency and monetary gold measured at amortized cost for impairment.

The NBU's management uses accumulated statistical information of international rating agencies Fitch Ratings, Moody's and Standard & Poor's for a period allowing to consider the impact of the economic cycle (at least 10 years) to estimate the probability of default (PD) and loss given default (LGD) in order to determine a need for recognition of allowance for expected credit losses.

Demand deposits and term deposits in foreign currency are considered to have low credit risk, if the long-term credit rating of the counterparty under the relevant financial instrument on the reporting date is not lower than BBB-, that is, belongs to an investment class confirming the counterparty's high ability to fulfill all its contractual obligations in near future (its high current creditworthiness), even if adverse changes in the economic environment and long-term business activity may, but not necessarily, reduce creditworthiness of such counterparty.

Demand and term deposits in foreign currency and monetary gold are considered to be as bearing "zero" credit risk, if they are direct obligations of:

- the International Monetary Fund or the Bank of International Settlements, denominated in any currency
- a country, denominated in the currency of such country, except for obligations in euro
- a foreign central bank, denominated in the currency of the central bank's home country, except for obligations in euro
- the European Central Bank, government of the Federal Republic of Germany and Deutche Bundesbank denominated in euro.

As of 31 December 2019 and 2018 all demand funds and term deposits in foreign currency and monetary gold had a low level of credit risk or "zero" credit risk.

Measurement of expected credit losses on securities that are measured at amortized cost

The NBU regularly revises its securities portfolio measured at amortized cost for impairment.

The NBU's management applies their professional judgment in respect of evidences of significant increase in of credit risk and reduction of future cash flows for securities portfolio in order to determine a need for recognition of allowance for expected credit losses. Such evidence may include information of a negative change in issuer's solvency.

Government debt securities denominated in domestic currency of the issuer's country, except for euro obligations, are considered to be "zero" credit risk. For debt securities that are considered to be "zero" of credit risk, probability of default for a period of 12 months and for the maturity of the financial instrument are deemed insignificant, i.e. close to zero.

As of 31 December 2019 there is an objective evidence of impairment of bonds of the State Mortgage Institution, which are measured at amortized cost in the NBU's portfolio (violation by the issuer of securities of the issuance terms - failure to pay interests that are payable to the NBU as the bonds' holder during recent interest payment period according to the issuance terms). Therefore these securities were transferred to a third stage of impairment.

The NBU's management believes that as of 31 December 2019 and 31 December 2018 there were no other signs of impairment of securities accounted at amortized cost.

All government debt securities of Ukraine in the NBU's portfolio at amortised cost were denominated in hryvnia, and therefore were classified as "zero" credit risk.

Measurement of expected credit losses on loans granted to banks and other borrowers

The NBU regularly reviews its loan portfolio for impairment.

The majority of loans to banks and other borrowers are assessed on an individual basis. The NBU's management uses professional judgment to estimate future cash flows under each loan. Allowances for expected credit losses are calculated using a discounted cash flow method, taking into account loan repayments and collateral sale under the respective loan. While estimating future impairment losses for loans to the banks under liquidation, declared insolvent or having significant financial difficulties (stage 3), the NBU's management applies judgment and estimates future cash flows primarily from sale of collateral. However, the NBU expects recovery of outstanding debt mainly through cash flows from debt repayment rather than from collateral sale under certain loans that were classified as impaired (stage 3) as of 31 December 2019.

The NBU measures real estate pledged as collateral for loans at fair value. Estimated value of collateral impacts the allowances for expected credit losses, which requires professional judgment. Accounting estimates related to the valuation of real estate, when there are no market prices formed in an active market, are a main source for uncertainty in valuation, as (i) it is characterized by high variability from period to period and (ii) the recognition of changes in estimates could potentially have a significant impact.

The methodology and assumptions used to estimate the amounts and timing of future cash flows are constantly reviewed to avoid any discrepancy between the estimated and actual costs.

A 10% decrease or increase in future discounted cash flows under the loans that are at stage 3 and assessed on an individual basis, which is possible due to differences in the amounts and maturities of cash flows, would I lead to an increase in the expected credit losses by UAH 2,432 million or a decrease by UAH 326 million, respectively, as of 31 December 2019 (as of 31 December 2018 this would have led to an increase in the allowances for loan impairment by UAH 1,639 million or decrease by UAH 884 million, respectively).

Impairment of property and equipment and intangible assets

As of each reporting day, the NBU's management reviews tangible and intangible assets for impairment taking into account the analysis of certain events or circumstances that evidence on impairment. As of 31 December 2019, the NBU reports no signs of impairment in property and equipment and intangible assets based on the results of such analysis (Note 11).

Provisions for contingent liabilities under lawsuits filed against the NBU

The NBU's management analyzes lawsuits, in which it acts as defendant, in order to identify a high probability of potential losses to occur, as a result of which the NBU shall make payments in favor of the other party, the plaintiff. The NBU determines the probability of potential losses as high mainly when the court of first instance rules unfavorably for the NBU.

Related party transactions.

The NBU carries out transactions with related parties, mainly with the government of Ukraine, banks and organizations controlled by the state. In accordance with IFRS 9, financial instruments are initially recognized at fair value. If there is no active market to determine market interest rates, the NBU shall apply professional judgment. A basis for such judgment is pricing for similar types of transactions with unrelated parties and analysis of the effective interest rate. See related parties transactions in Note 37.

4 Impact of Economic Conditions on the NBU's Financial Position and Performance

Economic Developments

The economy of Ukraine grew steadily in 2019: real GDP grew by 3.2%, compared with 3.4% as of year-end 2018 (http://ukrstat.gov.ua).

In 2019, the current account deficit narrowed to 0.7% of GDP and was entirely offset by capital inflows to the public and real sector. As a result, gross international reserves rose to the highest level since the end of 2012 (to USD 25.3 billion as of 31 December 2019, which equals 3.9 months of future imports).

Inflationary pressures subsided in 2019: consumer inflation declined to a six-year low of 4.1%, versus 9.8% in 2018 (http://ukrstat.gov.ua). The NBU achieved its medium-term inflation target of $5\% \pm 1$ pp, which it declared in 2015. The fall in inflation to its target in 2019 was mainly the result of the NBU's consistent monetary policy, which aims to deliver price stability, and the prudent fiscal policy.

The key factor behind the rapid disinflation was the appreciation of the hryvnia fueled by a surplus of foreign currency that existed on the market throughout most of 2019. In turn, an increase in foreign currency supply was caused by exporters selling large amounts of their foreign currency revenues and foreign investors showing lively interest in

hryvnia-denominated government bonds. With a lasting period of macroeconomic stability and attractive yields, nonresidents' portfolio of hryvnia-denominated domestic government debt securities rose by USD 4.3 billion in 2019. On the other hand, higher productivity – especially in agriculture, which led to another record harvest of grain and oil crops – boosted export proceeds. As prices for exported goods declined and import prices fell even lower, terms of trade improved also contributing to the growth in foreign currency supply in Ukraine.

As of year-end 2019, the consolidated budget ran a deficit of UAH 84.3 billion. The deficit-to-GDP ratio remained virtually unchanged from a year ago and was lower than the IMF criterion. Coupled with the effect of the hryvnia's strengthening, this led to a reduction, to almost 50%, in the ratio of public and publicly guaranteed debt to GDP. The currency composition of public debt also improved.

In 2019, the banking system continued to have a substantial liquidity surplus (as seen in balances of banks' correspondent accounts and holdings of NBU certificates of deposit), which increased notably in Q4. Certificates of deposit grew by UAH 90 billion in 2019, to UAH 151.9 billion as of the end of 2019. Balances of banks' correspondent accounts increased by UAH 16.7 billion, to UAH 52.4 billion.

In 2019, the main source of the banking system's liquidity inflows was purchases of foreign currency the NBU carried out when the supply of foreign currency exceeded demand. As of the end of the year, the NBU was a net buyer of foreign currency, purchasing a total of USD 7.9 billion. Liquidity was mainly absorbed in 2019 by the government's transactions and an increase in cash in circulation.

As of 31 December 2019, Fitch and Standard & Poor's upgraded Ukraine's sovereign rating to B, and Moody's affirmed the Caa1 rating for Ukraine (as of 31 December 2018, Ukraine's sovereign rating was Caa1 according to Moody's and B- according to Standard & Poor's and Fitch).

Changes in Operational and Political Environment of Ukraine in 2019

In 2019, the economy of Ukraine remained affected by the unresolved armed conflict in some regions of Luhansk and Donetsk oblasts as well as by complicated political and economic relations with Russia. Additional trade restrictions imposed by Russia in late 2018 and lower global energy prices made the share of Russia in Ukraine's total exports and imports of goods decline further (to 5.7% and 11.2% in 2019 respectively). On the other hand, the European Union remained Ukraine's largest trade partner in 2019, accounting for more than one third of the country's total exports and imports of goods. Among other things, this was due to the Deep and Comprehensive Free Trade Area established between Ukraine and the EU.

Political and economic risks built up in early 2019 on the back of the presidential and parliamentary elections. However, the democratic and unhampered elections and prompt formation of the new government resulted in a lower risk premium for Ukraine.

New currency laws came into force on 7 February 2019. In particular, the NBU loosened currency restrictions for businesses and households and introduced an additional tool to smooth out FX fluctuations, namely FX interventions through swaps. The final goal of these legislative and regulative changes is the transition to the free movement of capital, which, however, will be a gradual process.

Further economic growth and the macrofinancial stability greatly depend on the implementation of planned reforms and continued cooperation with the IMF.

Events Subsequent to the Reporting Date

The risk of the spread of the novel coronavirus across the globe and in Ukraine, which emerged after the reporting date, and measures implemented to prevent the infection from spreading can lead to a significant economic slowdown in Ukraine in 2020. Moreover, despite a number of reforms and improved macrofinancial conditions, the Ukrainian economy remains vulnerable to unfavorable external events – primarily a global economic crisis, falling global commodity prices, and capital outflows. At the same time, the economy of Ukraine faces the current crisis being more resilient than it was during previous crises.

An aggravation of these factors may have a mixed effect on the NBU's performance and financial position. However, currently the extent of the effect cannot be measured reliably. The management of the NBU is closely monitoring current developments and is taking actions to mitigate effects of the negative factors.

5 Funds and Deposits in Foreign Currency and Investment Metals

	2019	2018
	· · · ·	(UAH million)
Financial assets at amortized cost		
Foreign currency cash	589	1,816
Demand deposits	14,085	41,592
Time deposits in foreign currency	74,848	73/288
Loss allowances for expected credit losses on deposits in foreign currency that are measured at amortized cost	(10)	(25)
Total financial assets that are measured at amortized cost	89,512	116,671
Financial assets that are measured at fair value through profit or loss		
Demand deposits for settling futures transactions	8	10
Total financial assets	89,520	116,681
Nonfinancial assets		
Term deposits and demand deposits:		
in gold	648	-
Total nonfinancial assets	648	-
Total funds and deposits in foreign currency and investment metals	90,168	116,681

The sum of demand deposits at amortized cost as of 31 December 2019 includes balances of special purpose accounts of UAH 97 million (UAH 169 million as of 31 December 2018), which are maintained by the NBU within the credit lines granted by international financial institutions, and which are restricted for use.

The sum of demand deposits at fair value through profit or loss as of 31 December 2019 includes funds of UAH 8 million (UAH 10 million in 2018) for settling futures transactions under agreements on investment management and the provision of advisory services between the IBRD and the NBU (Note 35).

For the purposes of the consolidated statement of cash flow, the cash flows generated by gold-denominated term deposits are treated as investment activity, whereas those generated by gold-denominated demand deposits - as operating activity.

All funds and deposits in foreign currency are uncollateralized as of 31 December 2019 and 31 December 2018.

All funds and deposits in foreign currency are expected to be recovered within 12 months (as of 31 December 2018, these funds and deposits were also expected to be recovered within 12 months).

Foreign currency funds and deposits are analyzed by geographical concentration risk in Note 29, by credit risk is analyzed in Note 30, by currency risk – in Note 31, by interest rate risk – in Note 32, by liquidity risk – in Note 33.

In 2019, movements in gross carrying amounts of demand deposits were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(U,	AH millions)
Gross carrying value of demand deposits as of 1 January 2019	41,592	_	_	_	41,592
Purchased/originated assets Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	_	-	_	_	_
Transfer to Stage 3	_	_	_	_	-
Derecognized or repaid assets	(25,947)	-	-	-	(25,947)
Assets written off against allowances for expected credit losses	_	_	-	_	-
Other changes	(1,560)	-	-	_	(1,560)
Gross carrying value of demand deposits as of 31 December 2019	14,085	_	_	_	14,085

In 2018, movements in gross carrying amounts of demand deposits were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(L	AH million)
Gross carrying value of demand deposits as of 1 January 2018	11,636	_	_	_	11,636
Purchased/originated assets	29,956	-	_	_	29,956
Transfer to Stage 1	_	-	-	_	-
Transfer to Stage 2	_	-	-	_	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or repaid assets	-	-	-	-	-
Assets written off against allowances for expected credit losses	-	-	_	_	-
Other changes	-	-	-	_	-
Gross carrying value of demand deposits as of 31 December 2018	41,592	_	_	_	41,592

In 2019, movements in gross carrying amounts of term deposits in foreign currency were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UAH million)
Gross carrying value of term deposits in foreign currency as of 1 January 2019	73,288	_	-	-	73,288
Purchased/originated assets (placed)	74,848	-	-	-	74,848
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or repaid assets (returned)	73,288	-	-	-	73,288
Assets written off against allowances for expected credit losses	-	-	-	-	-
Other changes	-	-	-	-	_
Gross carrying value of term deposits as of 31 December 2019	74,848	-	-	-	74,848

In 2019, movements in allowances for expected credit losses on term deposits in foreign currency were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UAF	l million)
Allowance for expected credit losses on term deposits in foreign currencies as of 1 January 2019	25	_	_	-	25
Purchased/originated assets	10	_	-	-	10
Transfer to Stage 1	-	_	-	-	-
Transfer to Stage 2	-	_	-	-	-
Transfer to Stage 3	-	_	-	-	-
Derecognized or repaid assets	(25)	_	-	-	(25)
Assets written off against allowances for expected credit losses	-	_	-	-	-
Change in parameters/models used for calculating allowances for expected credit losses and their partial repayment	_	_	-	_	_
Allowance for expected credit losses on term deposits in foreign currency as of 31 December 2019	10	_	_	_	10

In 2018, movements in gross carrying amounts of term deposits in foreign currency were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UAH million)
Gross carrying value of term deposits in foreign currency as of 1 January 2018	10,217	_	-	_	10,217
Purchased/originated assets (placed)	73,288	-	-	-	73,288
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	_	-	-	-
Derecognized or repaid assets (returned)	(10,217)	-	-	-	(10,217)
Assets written off against allowances for expected credit losses	-	-	-	-	-
Other changes	-	-	-	-	-
Gross carrying value of term deposits as of 31 December 2018	73,288	-	-	-	73,288

In 2018, movements in allowances for expected credit losses on term deposits in foreign currency were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	То
				(UAF	l milli
Allowance for expected credit losses on term deposits in foreign currency as of 1 January 2018	3	-	-	_	
Purchased/originated assets	25	-	-	-	
Transfer to Stage 1	-	-	-	-	
Transfer to Stage 2	-	-	-	-	
Transfer to Stage 3	-	-	-	-	
Derecognized or repaid assets	(3)	-	-	-	
Assets written off against allowances for expected credit losses	-	-	-	-	
Change in parameters/models used for calculating allowances for expected credit losses and their partial repayment	-	-	-	-	
Allowance for expected credit losses on term deposits in foreign currency as of 31 December 2018	25	-	-	-	

6 Foreign Securities

As of 31 December 2019, foreign securities comprised the following:

	Government bonds	Securities issued by international agencies, banks and other issuers	Total
		· · ·	(UAH million)
Foreign securities at fair value through profit or loss:			
Debt securities broken down by issuers:			
securities issued by U.S. issuers:			
denominated in USD	269,697	5,239	274,936
securities issued by EU issuers:			
denominated in USD	9,089	47,828	56,917
denominated in EUR	149	17,256	17,405
denominated in GBP	8,008	1,489	9,497
denominated in Chinese renminbi	-	3,808	3,808
securities issued by other issuers:			
denominated in USD	4,167	68,734	72,901
denominated in EUR	1,315	37,712	39,027
denominated in AUD	544	250	794
denominated in GBP	-	2,612	2,612
denominated in Chinese renminbi	270	13,655	13,925
denominated in JPY	-	13,036	13,036
Total debt securities	293,239	211,619	504,858
Capital instruments:			
securities issued by the Black Sea Trade and Development Bank	-	120	120
investment in the Interstate Bank	-	1	1
Total capital instruments	-	121	121
Total foreign securities at fair value through profit or loss:	293,239	211,740	504,979

In 2019, the interest income on foreign securities that are included in the consolidated statement of comprehensive income, result on transactions with debt securities at fair value, totaled UAH 7,275 million (compared to UAH 5,072 million in 2018).

All foreign securities are expected to be recovered within 12 months, except for capital instruments, totaling UAH 121 million (UAH 121 million as of 31 December 2018).

Securities issued by international agencies, banks and other issuers include debt securities issued by foreign central and investment banks, international agencies and other issuers.

Foreign securities are analyzed by geographical concentration risk in Note 29, by credit risk – in Note 30, by currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

As of 31 December 2018, foreign securities comprised the following:

	Government bonds	Securities issued by international agencies, banks and other issuers	Total
	- -	· · ·	(UAH million)
Foreign securities that are measured at fair value through profit or loss:		·	
Debt securities broken down by issuers:			
securities issued by U.S. issuers:			
denominated in USD	173,912	6,609	180,521
securities issued by EU issuers:			
denominated in USD	14,705	60,884	75,589
denominated in EUR	178	13,517	13,695
denominated in GBP	3,251	3,619	6,870
denominated in Chinese renminbi	-	406	406
securities issued by other issuers			
denominated in USD	3,137	83,386	86,523
denominated in EUR	-	38,841	38,841
denominated in AUD	605	296	901
denominated in GBP	-	3,232	3,232
denominated in Chinese renminbi	-	20,949	20,949
denominated in JPY	-	5,343	5,343
Total debt securities	195,788	237,082	432,870
Capital instruments:			
securities issued by the Black Sea Trade and Development Bank	-	120	120
investment in the Interstate Bank	-	1	1
Total capital instruments	-	121	121
Total foreign securities that are measured at fair value through profit or loss	195,788	237,203	432,991

Information about the nominal value, yield to maturity, coupon rate, and maturities of foreign debt securities as of 31 December 2019 is presented in the table below:

	Total nominal value in foreign currency, million	Total nominal value in hryvnia equivalent, UAH million	Coupon rate, % p.a.	Frequency of coupon payments	Maturity
Debt securities that are measured at fair value	through profit or	loss broken dow	n by issuers:		
Government bonds:					
securities issued by U.S. issuers:	11,273	267,004	1.125–3.125	Quarterly,	From 4.5
denominated in USD				every 6 months,	months to 2.9 years
securities issued by EU issuers:					
denominated in USD	381	9,024	1.5–2.5	Quarterly, every 6 months, once a year	From 2.2 months to 2.6 years
denominated in EUR	6	145	0.375	Once a year	3.1 years
denominated in GBP	256	7,950	0.5–4.75	Quarterly, every 6 months,	From 2.2 months to 3.6 years
securities issued by other issuers:					
denominated in USD	174	4,117	1.875–2.625	Quarterly, every 6 months,	From 4.7 months to 4.4 years
denominated in EUR	50	1,321	0.125	Once a year	6.9 years
denominated in AUD	32	527	2–5.75	Every 6 months	From 1.4 years to 2.9 years
denominated in Chinese renminbi	80	269	2.95	Every 6 months	1.5 years
Securities issued by international agencies, banks and other issuers:					
securities issued by U.S. issuers:					
denominated in USD	219	5,187	1.375–2.75	Quarterly, every 6 months	From 3 months to 2 years
securities issued by EU issuers:					
denominated in USD	2,002	47,415	0–3.125	Quarterly, every 6 months, once a year, without coupon payments	From 10 days to 3.5 years
denominated in EUR	648	17,122	0-4	Quarterly, once a year, without coupon payments	From 8 days to 4.7 years
denominated in GBP	48	1,489	0–0.625	Once a year, without coupon payments	From 17 days to 4.7 months
denominated in Chinese renminbi	1,130	3,826	0–4.5	Every 6 months, without coupon payments	From 1.4 months to 10.9 months
securities issued by other issuers:					
denominated in USD	2,888	68,413	0–3.3	Quarterly, every 6 months, without coupon payments	From 10 days to 4.5 years
denominated in EUR	1,422	37,572	0–0.75	Quarterly, once a year, without coupon payments	From 14 days to 4.8 years
denominated in AUD	15	248	1.7517	Quarterly	1.9 years
denominated in GBP	84 4,089	2,606	0.875–1.17238	Quarterly, once a year Every 6 months,	From 3.1 months to 1.8 years From 2.4 months
denominated in Chinese renminbi				once a year, without coupon payments	to 2.3 year
denominated in JPY	60,300	13,041	0–0.42	Every 6 months, without coupon payments	From 1.2 months to 4.8 years

Information about the nominal value, yield to maturity, coupon rate, and maturities of foreign debt securities as of 31 December 2018 is presented in the table below:

	Total nominal value in foreign currency, million	Total nominal value in hryvnia equivalent, UAH million	Coupon rate, % p.a.	Frequency of coupon payments	Maturity
Debt securities that are measured at fair value t	through profit or le	oss broken dow	n by issuers:		
Government bonds:					
securities issued by U.S. issuers:					
denominated in USD	6,323	175,077	0.875–3.625	Every 6 months	From 7.6 months to 2.9 years
securities issued by EU issuers:					
denominated in USD	534	14,777	1.125–2.72694	Quarterly, every 6 months, or once a year	From 4.7 monthe to 1.8 years
denominated in EUR	6	174	0.375	once a year	Up to 4.1 years
denominated in GBP	92	3,243	0.5–2.0	Every 6 months	From 6.8 months to 3.6 years
securities issued by other issuers:					
denominated in USD	115	3,179	1.25–2.91963	Quarterly, every 6 months,	From 1 month to 3.8 year
denominated in AUD	29	565	1.75–5.75	Every 6 months	From 1.9 year to 3.9 year
Securities issued by international agencies banks and other issuers:	,				
securities issued by U.S. issuers:					
denominated in USD	239	6,617	1.25–2.96819	Quarterly, every 6 months,	From 9.6 month to 3 year
securities issued by EU issuers:					
denominated in USD	2,208	61,122	0–3.6475	Quarterly, every 6 months, or once a year without coupon payments	From 14 day to 4.5 year
denominated in EUR	423	13,415	0–4.125	Quarterly, once a year, without coupon payments	From 2.9 month to 5.4 year
denominated in GBP	103	3,619	0–1.125	Once a year, without coupon payments	From 4.7 month to 1 yea
denominated in Chinese renminbi	100	403	4.5	Every 6 months	1.9 year
securities issued by other issuers:					_
denominated in USD	3,021	83,655	0–3.7475	Quarterly, every 6 months, without coupon payments	From 1.4 month to 4.8 year
denominated in EUR	1,225	38,850	0–0.75	Quarterly, once a year, without coupon payments	From 14 day to 4.4 year
denominated in AUD	15	293	2.79	Quarterly	2.9 year
denominated in GBP	92	3,232	0.875–1.29244	Quarterly, once a year	From 6.9 month to 2.8 year
denominated in Chinese renminbi	5,295	21,316	0–4.8	Once a year, without coupon payments	From 18 day to 2.4 year
denominated in JPY	21,300	5,344	0–0.42	Every 6 months, without coupon payments	From 2 month to 2.9 year

7 SDR holdings

SDR holdings are demand funds denominated in SDR on the account opened with the IMF for Ukraine.

Movements in the SDR holding account in 2019 and 2018 were as follows:

	2019	2018
		(UAH million)
Balance of SDR holdings as of 1 January	100	60,860
Proceeds from the IMF:		
In favor of the NBU (Note 17)	-	38,309
In favor of the Government	-	-
Purchase of SDRs	51,271	8,767
Other proceeds and payments	-	183
Repayment of loans:		
On behalf of the NBU (Note 17)	(15,438)	(19,989)
On behalf of the Government	(26,396)	(37,536)
Payment of loan-related fees and commissions	(15)	(927)
Translation of SDRs to other foreign currencies:		
In favor of the NBU	-	(38,309)
In favor of the Government	-	-
Payment of interest for the use of IMF loans:		
On behalf of the NBU	(6,155)	(5,491)
On behalf of the Government	(2,546)	(3,498)
Payment of interest for the use of funds received under SDR allocation:		
On behalf of the NBU	(31)	(27)
On behalf of the Government	(462)	(413)
Other payments	(1)	(1)
Income on SDR holdings	6	219
Exchange rate differences	(99)	(2,047)
Balance of SDR holdings as of 31 December	234	100

During 2019, no funds were received from the IMF.

In 2018, the account of SDR holdings received funds in the amount of SDR 1,000 million (UAH 38,309 million at the official exchange rate at the date of payment) under the Stand-By Program, which were translated to other foreign currencies.

The NBU as the fiscal agent performs debt settlements on behalf of the Ukrainian Government in favor of the IMF for SDR purchases (loans received by the Government from the IMF). The Government reimburses the funds to the NBU through the Single Treasury Account. When such funds are reimbursed, the respective amount is included in 'Increase/decrease on accounts of government and other institutions' in the consolidated cash flow statement. In 2019, the Ukrainian Government reimbursed UAH 26,396 million.

SDR holdings are analyzed by geographical concentration risk in Note 29, by currency risk – in Note 31, by interest rate risk – in Note 32, by liquidity risk – in Note 33.

8 Domestic securities

As of 31 December 2019, domestic securities comprised the following:

	Government securities	Corporate securities	Total
			(UAH million)
Securities at fair value through profit or loss:			
In foreign currencies:			
Government derivatives denominated in USD	987	-	987
Total securities at fair value through profit or loss	987	-	987
Debt securities at amortized cost:			
In the national currency:			
Domestic government debt securities	345,440	-	345,440
Bonds of other government institutions	-	953	953
Allowances for expected credit losses on bonds of other government institutions at amortized cost	_	(189)	(189)
Total debt securities at amortized cost	345,440	764	346,204
Total domestic securities	346,427	764	347,191

Under the Law of Ukraine *On the National Bank of Ukraine*, the NBU performs transactions with domestic securities only in the secondary market.

Domestic government debt securities (hereinafter – Tbills&bonds) are issued by the Ministry of Finance of Ukraine and have the nominal value of UAH 1,000 each.

In 2018 and 2019, the NBU purchased no T-bills&bonds.

As of 31 December 2019, bonds of other government institutions included bonds of the State Mortgage Institution with an additional collateral in the form of government guarantees on issuer liabilities provided by the Cabinet of Ministers of Ukraine (hereinafter – the SMI bonds). The SMI bonds were repossessed by the NBU in November 2019 at nominal value of UAH 946 million and carrying value of UAH 938 million as the amicable agreement settlement with a Ukrainian bank on repayment of its debt under loans. The SMI bonds have nominal value of UAH 100,000 each.

Each government derivative has a notional value of USD 1,000 or such aggregate value that is an integer multiple

equal to USD 1,000 (hereinafter — the notional value). Payments on government derivatives depend on reaching the certain GDP indicators and the indicator of real GDP growth for 2019–2038.

All domestic securities are expected to be redeemed later than 12 months from the reporting date, excluding the nominal value of T-bills&bonds and bonds of other government institutions and the accrued interest on debt securities totaling UAH 21,439 million payable within 2020 (as of 31 December 2018: all domestic securities were expected to be redeemed later than 12 months from the reporting date, excluding the nominal value of T-bills&bonds and bonds of other government institutions and accrued interest on debt securities totaling UAH 23,381 million payable within 2019).

Domestic securities are analyzed by credit risk in Note 30, by currency risk – in Note 31, by interest rate risk – in Note 32, by liquidity risk – in Note 33. Estimated fair values of domestic securities are disclosed in Note 35.

As of 31 December 2018, domestic securities comprised the following:

	Government securities			Total
				(UAH million)
Securities at fair value through profit or loss:				
In foreign currencies:				
Government derivatives denominated in USD	692		-	692
Total derivatives at fair value through profit or loss	692		_	692
Debt securities at amortized cost:				
In the national currency:				
Domestic government debt securities	360,744		-	360,744
Total debt securities				
at amortized cost	360,744		-	360,744
Total domestic securities	361,436		-	361,436

Information on the nominal value, yield to maturity, coupon income, and maturities of domestic securities as of 31 December 2019 is presented in the table below:

	Total nominal value in the UAH equivalent, UAH million	foreign	Yield to maturity, % p.a.	Coupon rate, %, p.a.	Frequency of coupon payments	Maturity
Securities at fair value through profit or loss:						
In foreign currencies:						
Government derivatives	1,038	44	-	-	-	Up to 20.4 years
Debt securities at amortized cost:						
In the national currency:						
Domestic government debt securities	337,077	-	7.43–28.91	4.9–14.5	Once a year, every 6 months	From 21 days to 27.9 years

Information on the nominal value, yield to maturity, coupon income, and maturities of domestic securities as of 31 December 2018 is presented in the table below:

	Total nominal value in the UAH equivalent, UAH million	Total nominal value in foreign currencies, in million	Yield to maturity, % p.a.	Coupon rate, %, p.a.	Frequency of coupon payments	Maturity
Securities at fair value through profit or loss:			•			
In foreign currencies:						
Government derivatives	1,214	44				Up to 21.4 years
Debt securities at amortized cost:						
In the national currency:						
Domestic government debt securities	348,101	-	7.22–20.41	8.12–14.50	Once a year, every 6 months	From 8 days to 28.9 years

During 2019, movements in gross carrying amounts of government securities were as follows:

	Stage 1	Stage 2	Stage 3	Credit- impaired assets	Total
				(U	JAH million)
Gross carrying amounts of government securities as of 1 January 2019	360,744	_	-	_	360,744
Purchased/originated assets	_	-	-	_	-
Transfer to Stage 1	-	-	_	_	-
Transfer to Stage 2	_	_	_	_	-
Transfer to Stage 3	-	-	-	_	-
Derecognized or redeemed assets	(11,024)	_	_	_	(11,024)
Assets written off against allowances	-	-	-	_	-
Other changes	(4,280)	_	_	_	(4,280)
Gross carrying amounts of government securities as of 31 December 2019	345,440	_	-	-	345,440

During 2018, movements in gross carrying amounts of government securities were as follows:

	Stage 1	Stage 2	Stage 3	Credit- impaired assets	Total
				Ű,	AH million)
Gross carrying amounts of government securities as of 1 January 2018	371,064	_	_	_	371,064
Purchased/originated assets	-	-	_	-	-
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or redeemed assets	(12,969)	-	-	-	(12,969)
Assets written off against allowances	-	-	-	-	-
Other changes	2,649	_	-	-	2,649
Gross carrying amounts of government securities as of 31 December 2018	360,744	_	-	_	360,744

Derecognized or redeemed assets include the nominal value of government securities. Coupon amount paid on the redeemed government securities is included in 'Other changes'.

During 2019, movements in gross carrying amounts of corporate securities were as follows:

	Stage 1	Stage 2	Stage 3	Credit- impaired assets	Total
				(UA	H million)
Gross carrying amounts of corporate securities as of 1 January 2019	_	-	_	_	_
Purchased/originated assets	938	-	_	-	938
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	_	-
Transfer to Stage 3	(938)	-	938	-	-
Derecognized or redeemed assets	-	-	-	_	-
Assets written off against allowances	-	-	-	_	-
Other changes	15	-	(189)	_	(174)
Gross carrying amounts of corporate securities as of 31 December 2019	15	-	749	_	764

During 2019, movements in loss allowances for corporate securities were as follows:

	Stage 1	Stage 2	Stage 3	Credit- impaired assets	Total
				(UA	H million)
Allowances for expected credit losses on corporate securities as of1 January 2019	_	-	_	_	_
Purchased/originated assets	6	-	-	-	6
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	_	-	-	-	-
Transfer to Stage 3	(6)	-	6	-	-
Derecognized or redeemed assets	_	-	-	-	-
Assets written off against allowances	_	-	-	-	-
Other changes	_	-	183	-	183
Allowances for expected credit losses on corporate securities as of 31 December 2019	_	-	189	_	189

9 Loans to Banks and Other Borrowers

Loans to banks and other borrowers by the purpose of their issue are classified as follows:

	2019	2018
		(UAH million)
Loans granted to banks to support their liquidity:		
for stabilizing banking activities	51,324	57,094
through tenders conducted by the NBU	386	4,494
Other	10	10
Loans granted to the Deposit Guarantee Fund	-	1,458
Loans granted under credit lines to support small and medium entities from the funds received from the European Bank for Reconstruction and Development (the EBRD)	36	36
Other	2	2
Allowance for expected credit losses on loans to banks and other borrowers	(37,915)	(40,949)
Total loans to banks and other borrowers	13,843	22,145

In 2019, the NBU supported the liquidity of banks through establishing a standing refinancing line (overnight loans), refinancing banks for the period up to 14 days (in 2018 - up to 90 days) by holding tenders.

In 2019, the movements in gross carrying value of loans to banks were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(U	AH million)
Gross carrying value of loans to banks as of 1 January 2019	4,302	_	57,296	-	61,598
Purchased/originated loans	104	-	-	-	104
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or repaid loans	(4,302)	-	(2,335)	-	(6,637)
Assets written off and otherwise derecognized against allowances	-	_	(112)	-	(112)
Other changes (including partial repayment)	-	-	(3,233)	-	(3,233)
Gross carrying value of loans to banks as of 1 January 2019	104	-	51,616	-	51,720

Allowance for expected credit losses on loans to banks in 2019 were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UA	H million)
Allowance for expected credit losses on loans to banks as of 1 January 2019	_	_	40,911	_	40,911
Purchased/originated loans	-	-	-	-	-
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or repaid assets	-	-	(923)	-	(923)
Assets written off and otherwise derecognized against allowances	-	-	(47)	_	(47)
Amortization of discount	_	_	(1,100)	-	(1,100)
Change in parameters/models used for calculating allowances and their partial repayment	_	_	(964)	_	(964)
Allowance for expected credit losses on loans to banks as of 31 December 2019	-	-	37,877	_	37,877

In 2018, the movements in gross carrying value of loans to banks were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UAI	H million)
Gross carrying value of loans to banks as of 1 January 2018					
	6,049	-	61,013	1,506	68,568
Purchased/originated loans	4,195	-	-	_	4,195
Transfer to Stage 1	-	-	-	-	-
Transfer to Stage 2	-	_	-	_	-
Transfer to Stage 3	-	_	-	_	-
Derecognized or repaid loans	(5,831)	_	(258)	(1,506)	(7,595)
Assets written off and otherwise derecognized against allowances	-	_	(48)	_	(48)
Other changes (including partial repayment)	(111)	-	(3,411)	_	(3,522)
Gross carrying value of loans to banks as of 31 December 2018					
	4,302	-	57,296	-	61,598

Total loans classified as initially derecognized repaid in 2018.

Allowance for expected credit losses on loans to banks in 2018 were as follows:

	Stage 1	Stage 2	Stage 3	Initially impaired assets	Total
				(UA	H million)
Allowance for expected credit losses on loans to banks as of 1 January 2018	1	-	42,630	-	42,631
Purchased/originated loans	-	_	_	-	_
Transfer to Stage 1	-	-	_	-	_
Transfer to Stage 2	-	-	-	-	-
Transfer to Stage 3	-	-	-	-	-
Derecognized or repaid assets	(1)	-	(42)	-	(43)
Assets written off and otherwise derecognized against allowances	-	-	(48)	-	(48)
Amortization of discount	_	-	(1,121)	_	(1,121)
Change in parameters/models used for calculating allowances and their partial repayment	_	_	(508)	_	(508)
Allowance for expected credit losses on loans to banks as of 31 December 2018	-	_	40,911	_	40,911

As of 31 December 2018, gross carrying value of loans to Deposit Guarantee Fund amounted to UAH 1,458 million. In 2019, all loans were at stage 1 and were repaid in full during 2019 (as of 31 December 2017 gross carrying value of loans to Deposit Guarantee Fund amounted to UAH 6,479 million. In 2018, all loans were at stage 1. The loans were repaid in

full for UAH 2,674 million, partial repayment and other changes stood UAH 2,347 million).

As of 31 December 2019 and 2018, loans granted under credit lines to support small and medium entities from funds received from the EBRD and other loans were at stage 3,

gross carrying value was UAH 38 million, allowance for expected credit losses was UAH 38 million.

Loans to banks and other borrowers are analyzed by geographical concentration risk in Note 29, by credit risk – in

10 IMF Quota Contributions

The quota balance is a special type of asset that represents Ukraine's contribution as a member of the IMF. Quotas vary based on the economic size of each country and are determined by the Board of Governors of the IMF. The quota determines a member's voting power in the IMF, the limits of its access to the financial resources of the Fund, and a participant's share in the allocation of SDRs, the Fund's unit of accounting. The major part of Ukraine's quota was paid in the form of non-interest-bearing promissory notes issued by the NBU to the IMF, with the remainder being credited to the IMF accounts No. 1 and No. 2 (Note 19).

As of 31 December 2019, Ukraine's total quota in the IMF amounted to SDR 2,012 million (UAH 65,894 million at the year-end official UAH/SDR exchange rate) (31 December 2018: SDR 2,012 million, or UAH 77,472 million at the year-end official UAH/SDR exchange rate). The quota does not earn interest. Quota contributions are a noncurrent asset.

Note 30, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33. Estimated fair value of loans to banks and other borrowers is presented in Note 35.

The reserve position in the IMF is a specific type of asset that is created as a result of the conversion of a part of the contribution of a member country to the IMF liquidity quota. The reserve position is part of the currency reserves of the country.

As of 31 December 2019, the reserve position of Ukraine in the IMF amounted to SDR 241,031 or UAH 8 million at the official exchange rate of UAH against SDR at the year-end (31 December 2018: SDR 241,031 or UAH 10 million at the official exchange rate of UAH against SDR at the year-end).

IMF quota contributions are analyzed by geographical concentration risk concentration in Note 29, by foreign currency risk – in Note 31, and by liquidity risk – in Note 33.

11 Property and Equipment and Intangible Assets

	Buildings and structures	Vehicles	Machinery and equipment	Tools, fixtures, and fittings	Other fixed assets	Constructi on in progress	Intangible assets	Total
								(UAH million)
Historical cost as of 1 January 2018	5,143	156	4,624	111	240	173	475	10,922
Depreciation and amortization as of 1 January 2018	(2,248)	(126)	(2,476)	(100)	(201)	(9)	(341)	(5,501)
Book value as of 1 January 2018	2,895	30	2,148	11	39	164	134	5,421
Inflows	. 1	3	66	2	8	30	11	121
Transfers to other categories, including:	7	_	27	(1)	(3)	(25)	(5)	_
Initial cost	7	_	27	(1)	(3)	(25)	(5)	-
Disposals, including:	(177)	_	(3)	(1)	(1)	(51)	-	(233)
Initial cost	(265)	(6)	(61)	(8)	(9)	(51)	(33)	(433)
Depreciation and amortization Transfers to the category held for	88	6	58	7	8	-	33	200
sale, including:	(47)	-	-	-	-	-	-	(47)
Initial cost	(108)	-	-	-	-	-	-	(108)
Depreciation and amortization	61	-	-	-	-	-	-	61
Transfers to investment property:	(4)	-	-	-	-	-	-	(4)
Historical cost	(4)	-	-	-	-	-	-	(4)
Depreciation and amortization charges in the current reporting period	(112)	(11)	(303)	(2)	(8)	_	(42)	(478)
Historical cost as of 31 December 2018	4,774	153	4,656	104	236	127	448	10,498
Depreciation and amortization as of 31 December 2018	(2,211)	(131)	(2,721)	(95)	(201)	(9)	(350)	(5,718)
Book value as of 31 December 2018	2,563	22	1,935	9	35	118	98	4,780
Inflows	_	1	143	1	6	98	36	285
Transfers to other categories, including:	13	_	(4)	_	(4)	(2)	(3)	
Initial cost	13	-	(4)	-	(4)	(2)	(3)	-
Otherniaflaura								
Other inflows					2			2
Historical cost	-	-	-	-	3	-	-	3
Depreciation and amortization Disposals, including:	(242)	_	(4)	_	(3) (3)	(1)	-	(3) (250)
Initial cost	(242)	(2)	(4)	(6)	(14)	(1)	(3)	(230)
Depreciation and amortization	(303)	(2)	(09)	(0)	(14)	(1)	(3)	(480)
Transfers to investment property:	(3)	_	_	_	_	_	_	(3)
Historical cost	(3)	_	_	_	_	_	_	(3)
Depreciation and amortization charges in the current reporting period	(98)	(9)	(268)	(2)	(8)		(41)	(426)
Historical cost as of 31 December 2019	4,399	(9)	4,726	(2)	(8)	- 222	(41)	(420)
Depreciation and amortization as of 31 December 2019	(2,166)	(138)	(2,924)	(91)	(201)	(9)	(388)	(5,917)

As of 31 December 2019, historical cost of fully depreciated property and equipment that were still in operation amounted to UAH 1,766 million (31 December 2018: UAH 1,646 million).

As of 31 December 2019, based on the results of impairment test, no signs of impairment wereidentified.

Disposal of fixed assets and intangible assets of subsidiaries has been adjusted by the amount of depreciation and

Fixed assets and intangible assets are noncurrent assets.

amortization charges calculated in accordance with the NBU's accounting policies.

In 2019, pursuant to the regulatory acts of the Cabinet of Ministers of Ukraine, free-of-charge transfer of items of state property from the NBU to other bodies authorized to manage state property took place. The result of the transfer of those assets amounted to UAH 248 million (31 December 2018: UAH 232 million), which are recognized in equity as a transaction with the owner.

12 Other Assets

	2019	2018
		(UAH million)
Other financial assets measured at amortized cost:		
Loans to the NBU's employees	75	98
Allowance for expected credit losses on loans to employees	(6)	(5)
Receivables	171	247
Allowance for expected credit losses on receivables	(12)	(7)
Other	-	-
Total financial assets at amortized cost	228	333
Other financial assets at fair value through profit or loss		
Proprietary rights on loan agreements repossessed by the NBU	8	13
Total other financial assets	236	346
Other nonfinancial assets		
Investment metals	1,743	1,616
Current tangible assets	1,092	900
Commemorative and investment coins, souvenirs and other products	541	602
Precious metals and stones	339	308
Advance payments	100	178
Investments in associates	31	132
Investment property	47	49
Noncurrent tangible assets held for sale	46	47
Other	17	18
Allowance for impairment on other nonfinancial assets	(4)	(8)
Total other financial assets	3,952	3,842
Total other financial assets	4,188	4,188

Other financial assets are not secured.

In 2019 there was a free of charge transfer of the NBU's share in authorized capital of the GUF with the carrying value of UAH 177 million (Note 1).

All other assets were expected to be recovered within 12 months, except for noncurrent receivables, investment metals, and investments in associates.

As of 31 December 2019, the gross carrying value of loans to employees was UAH 75 million, provisions for expected credit losses – UAH 6 million (as of 31 December 2018, the gross carrying value of loans to employees was UAH 98 million, provisions for expected credit losses – UAH 5 million). As of 31 December 2019 and 2018, loans to employees were at stages 1, 2 and 3. During a year ended 31 December 2019, no transition between stages, nor other changes occurred (during a year ended 31 December 2018, no transition between stages, nor other changes occurred).

Other financial assets are analyzed by geographical concentration risk in Note 29, by credit risk – in Note 30, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

13 Accounts of Banks

	2019	2018
		(UAH million)
Correspondent accounts:		
Denominated in the national currency	52,438	35,662
Denominated in foreign currencies	23,686	16
Term deposits:		
Denominated in foreign currencies	-	41
Accounts of banks on special use terms:		
in domestic currency	1,959	2,178
in foreign currencies	352	612
Funds placed to ensure the repayment of the debts of banks to the NBU:		
in foreign currencies	9	-
Total accounts of banks	78,444	38,509

As of 31 December 2019 and 2018, interest on the balances in the correspondent account is not accrued.

As of 31 December 2019 and 2018, no assets were allowed to be considered by banks to cover reserve requirement.

Accounts of banks on special-use terms as of 31 December 2019 and 2018 included funds placed for the purposes of liquidation committees of banks to make settlements in the process of a bank's liquidation, and the accounts opened for other purposes specified by the laws of Ukraine and the NBU's regulations.

As of 31 December 2019 and 2018, all accounts of banks to mature within 12 months.

Accounts of banks are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

14 Accounts of Government and Other Institutions

	2019	2018
		(UAH million)
Funds of budgets and budget entities	36,277	40,417
Deposit Guarantee Fund	2,498	7,082
Other	207	228
Total accounts of government and other institutions	38,982	47,727

The NBU services the accounts of the State Budget of Ukraine and local budgets, which are consolidated on one treasury account.

In accordance with the Law of Ukraine *On the National Bank of Ukraine*, all budget accounts are non-interest-bearing, except for the accounts of the Deposit Guarantee Fund, which bore interest rates of 9.53% as of 31 December 2019 (31 December 2018: 4.00%).

As of 31 December 2019 and 2018, all accounts of government and other institutions were maturing within 12 months.

Accounts of government and other institutions are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

15 Certificates of deposit issued by the NBU

The certificates of deposit issued by the NBU are one of its monetary policy instruments. They are debt securities issued by the NBU in nondocumentary form evidencing the placement of banks' funds with the NBU and the right of banks to receive on their maturity the funds placed, together with the interest accrued. Yield on the certificates of deposit is set by the NBU individually for each placement based on the current objectives of monetary policies.

In 2019, transactions on the placement of certificates of deposit were performed under agreements with banks for the period of one day (overnight deposits) and up to 100 days [in 2018, for the period of one day (overnight deposits) and up to 100 days].

As of 31 December 2019, the nominal value of the certificates of deposit issued by the NBU was UAH 1 million each, with

the initial period of placement being from 6 to 14 days, and a weighted average yield of 12.73% per annum (31 December 2018: a weighted average yield of 17.03% per annum and an initial period of placement from 5 to 14 days). The weighted average interest rate for certificates of deposit placed in 2019 was 15.18% per annum, and the initial period of placement varied from 1 to 15 days (in 2018: a weighted average yield of 15.64% per annum, and the initial period of placement varied from 1 to 91 days).

As of 31 December 2019 and 2018, all certificates of deposit issued by the NBU were maturing within 12 months.

Certificates of deposit are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

16 Borrowings received

As of 31 December 2019, the NBU used the funds in the amount of USD 100 million (UAH 2,369 million) received within the bilateral loan agreement between the NBU and the Swiss National Bank [as of 31 December 2018: USD 100 million (UAH 2,769 million)].

Borrowings received are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

17 Liabilities to the IMF

	2019	2018
		(in UAH millions)
Liabilities to the IMF for SDR purchases	168,385	214,155
Liabilities to the IMF for SDR allocations	2,671	3,142
IMF account No. 2	3	3
Liabilities to the IMF apart from quota contributions	171,059	217,300
Liabilities to the IMF with respect to quota settlement	65,721	77,268
IMF account No. 1	165	194
Liabilities to the IMF to pay quota contributions	65,886	77,462
Total liabilities to the IMF	236,945	294,762

Liabilities to the IMF for SDR allocation represent funds received by the NBU for special SDR allocation.

Liabilities to the IMF for purchases of SDRs represent loans received from the IMF by the NBU. During 2019, no proceeds came from the IMF (in 2018, the NBU's liabilities to the IMF increased due to the receipt of SDR 1,000 million in proceeds from the IMF (UAH 38,309 million at the official exchange rate at the transaction date, or UAH 37,720 million at the annual exchange rate of the IMF)) (Note 7).

IMF account No. 1 is the IMF's hryvnia account with the NBU that is used for transactions with the IMF related to the servicing and repayment of IMF loans. IMF account No. 2 is the IMF's hryvnia account with the NBU that is used by the IMF in Ukraine for hryvnia receipts and administrative disbursements.

Liabilities to the IMF for quota contributions represent liabilities for quota settlement. During 2019, no changes occurred in liabilities to the IMF for quota contributions due to administrative payments being made in hryvnias (in 2018, liabilities to the IMF for quota contributions decreased by UAH 5.6 million due to the need to replenish IMF account No. 1, and by UAH 2.6 million due to administrative payments made by the IMF in hryvnias, which resulted in the IMF's reserve position increasing by SDR 137,353).

During 2019 and 2018, no changes occurred in the size of the quota in the IMF (Note 10).

During 2019, liabilities worth SDR 427 million (UAH 15,438 million at the official exchange rate at the transaction date, or UAH 15,945 million at the annual exchange rate of the IMF) were repaid to the IMF (in 2018, liabilities worth SDR 516

million (UAH 19,989 million at the official exchange rate at the transaction date, or UAH 19,306 million at the annual exchange rate of the IMF) were repaid to the IMF) (Note 7).

All liabilities to the IMF are noncurrent, except for balances on IMF accounts No. 1 and No. 2, liabilities to the IMF for SDR allocation, and liabilities to the IMF to repay a loan of SDR 469 million (UAH 17,296 million at the IMF's annual exchange rate) and interest accrued on liabilities to the IMF (in 2018, SDR 427 million (UAH 16.113 billion at the IMF's annual exchange rate) and interest accrued on liabilities to the IMF).

Liabilities to the IMF are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

18 Other liabilities

	2019	2018
		(in UAH millions)
Other financial liabilities		
Due to employees	385	373
Accounts payable	276	200
Other	11	1
Total other financial liabilities	672	574
Other nonfinancial liabilities		
Provision for contingent liabilities	131	418
Accounts payable on taxes	4	13
Other	3	1
Total other nonfinancial liabilities	138	432
Total other liabilities	810	1,006

Other financial liabilities are analyzed by geographical concentration risk in Note 29, by foreign currency risk – in Note 31, by interest rate risk – in Note 32, and by liquidity risk – in Note 33.

19 Liabilities on profit distribution to the State Budget of Ukraine

The NBU determines distributable profit in accordance with Article 5 of the Law of Ukraine *On the National Bank of Ukraine* (as amended). The part of distributable profit that remains after general provisions have been formed and that is payable to the State Budget of Ukraine shall be transferred upon confirmation by an external auditor and approval by the NBU Council of the NBU's annual financial statements. According to the amendments made in March 2020 to the Law of Ukraine *On the National Bank of Ukraine*, the general provisions formed in 2019 should equal 10% of the average annual amount of monetary liabilities of the NBU (in 2018, in accordance with the Law of Ukraine *On the National Bank of Ukraine*, general provisions should equal 10% of the amount of monetary liabilities).

In accordance with the Law of Ukraine *On the National Bank* of *Ukraine*, the NBU is not entitled to transfer to the State Budget of Ukraine a part of distributable profit that is higher than that determined in the annual financial statements as confirmed by the external auditor and approved by the NBU Council. Total funds transferred by the NBU in 2019 to the State Budget of Ukraine amounted to UAH 64.898 billion (up from UAH 44.614 billion in 2018). Profit was transferred in seven installments between April and August, in line with the schedule agreed with the Ministry of Finance of Ukraine.

In 2019, the NBU switched to the direct method in disclosing information about the calculation of distributable profit. The change did not affect the amount of distributable profit. Under the new disclosure approach, the key indicator is operating income – the income (before consolidation adjustments) that the NBU generates during a year, excluding the results of the revaluation of assets and liabilities, inclusively due to exchange rate changes.

In 2018, the calculation of distributable profit was disclosed using the indirect method, in which distributable profit is presented as the NBU's profit for the year adjusted for income and expenses that are not components of distributable profit. In these financial statements, the comparative information for 2018 has been changed and presented using the 2019 approach.

The NBU's management believes that the new presentation method is more relevant and clear and that it makes the information more useful.

Reconciliation of the NBU's operating income with its profit for 2019:

	NBU's income and expenses	Consolidation adjustments	Income and expenses according to the Consolidated Statement of Comprehensive Income (in UAH millions)
Net interest income	20,307	42	20,349
Interest income on financial assets at fair value through profit or loss	7,275	-	7,275
Net fee and commission income/(expense)	251	1	252
Net decrease/increase in reserves for assets and liabilities	1,367	1	1,368
Other income/(expenses)	(3,234)	(32)	(3,266)
Operating income	25,966	12	25,978
Result on transactions with financial assets and liabilities in foreign currency and monetary gold	(43,441)	-	(43,441)
Result on transactions with financial assets at fair value through profit or loss (net of interest income)	6,156	-	6,156
Result on transactions with financial instruments	(37,285)	-	(37,285)
Adjustment to reflect the annual profit attributable to noncontrolling interest	-	(2)	(2)
Loss for the year	(11,319)	10	(11,309)

Net decrease/(increase) in reserves for assets and liabilities includes the items "Release/(chargel) of provisions for contingent liabilities" and "Net increase in reserves for other assets" of the consolidated statement of comprehensive income. Other income/(expenses) include the items "Staff costs," "Expenses on the production of banknotes, coins, souvenirs, and other products", "Administrative and other expenses," and "Income tax expense of subsidiary" of the consolidated statement of comprehensive income.

Reconciliation of the NBU's operating income with its profit for 2018:

	NBU results	Adjustment to reflect a (positive)/negati ve result of subsidiaries' operations	Consolidated results
			(in UAH millions)
Net interest income	34,320	59	34,379
Interest income on financial assets at fair value through profit or loss	5,072	-	5,072
Net fee and commission income/(expense)	(859)	3	(856)
Net decrease/increase in reserves for assets and liabilities	2,579	(3)	2,576
Other expenses	(2,746)	(24)	(2,770)
Operating income	38,366	35	38,401
Result on transactions with financial assets and liabilities in foreign currency and monetary gold	(2,223)	_	(2,223)
Result on transactions with financial instruments measured at fair value through profit or loss (net of interest income)	1,637	_	1,637
Result on transactions with financial instruments	(586)	_	(586)
Adjustment to reflect the annual profit attributable to noncontrolling interest		(5)	(5)
Profit of the NBU for the year	37,780	30	37,810

Liabilities for transferring distributable profit to the State Budget of Ukraine, which are determined in accordance with the Law of Ukraine On the National Bank of Ukraine, are calculated as follows:

	Comments	2019	2018
	· · ·	(in U/	AH millions)
Operating income of the NBU		25,966	38,366
Realized result on transactions with financial assets and liabilities in foreign currency and monetary gold	23	9,633	7,048
Realized result on transactions with financial instruments at fair value through profit or loss	24	1,749	567
Unrealized losses not compensated by revaluation reserves of financial instruments to their fair value	r 24	(270)	(588)
Unrealized result on revaluation of disposed securities and derivative financial instruments from previous years that realized in the reporting year	I	1,057	530
Realized result on investment metals disposed		173	181
Release of other reserves, and result on free-of-charge transfer of assets		4,995	327
Distributable profit for the year		43,303	46,431
Result of IFRS 9 implementation		-	22
Impact of change in accounting policy on determination of unrealized and realized results for foreign currencies, monetary gold, and investment metals		_	22,011
Total distributable profit		43,303	68,464
General reserves created		(581)	(3,566)
Liabilities on profit distribution to the State Budget of Ukraine		42,722	64,898

20 Capital Management

The function of the NBU's capital is to ensure economic independence and ability to perform the functions established by law. Total amount of capital managed by the NBU as of 31 December 2019 was UAH 83,329 million (down from UAH 137,465 million as of 31 December 2018). No external capital requirements exist for the NBU as a central bank, except for the size of authorized capital stipulated by the Law of Ukraine *On the National Bank of Ukraine*.

In accordance with the Law of Ukraine *On the National Bank of Ukraine*, the NBU must have UAH 10 million in authorized capital. By its decision based on the results of the year ended 31 December 2007, the NBU Council increased the NBU's authorized capital to UAH 100 million.

Composition of the NBU's equity as of 31 December 2019:

	2019	2018
		(in UAH millions)
Authorized capital	100	100
General reserves	50,816	47,251
Other reserves	-	5,243
Retained earnings	623	3,597
Revaluation reserves of foreign currency, monetary gold	25,486	78,560
Revaluation reserves of investment metals	596	625
Revaluation reserves of financial instruments to their fair values	5,708	2,089
Total equity	83,329	137,465

21 Cash and Cash Equivalents

	2019	2018 Adjusted comparative information p	2017 Adjusted comparative information
			(UAH million)
Foreign currency cash	589	1,816	1,941
Demand deposits (other than restricted funds)	13,988	41,423	11,577
Short-term deposits with maturities of up to three months (other than gold,			
investment metals, and restricted funds)	74,808	73,179	10,212
SDR holdings	234	98	60,784
Total cash and cash equivalents	89,619	116,516	84,514

Changes in liabilities resulted from financial activity in 2019:

	Note	As of 1 January 2019	Changes caused by cash flows	Interest paid	Changes in exchange rate	Interest expenses accrued	Other	As of 31 December 2019
								(UAH million)
Banknotes and coins in circulation		400,334	24,922	_	_	_	_	425,256
Liabilities to the IMF	17	294,762	(15,438)	(6,186)	(42,792)	6,362	237	236,945
Term deposits	13	41	(40)	_	(1)	-	-	-
Certificates of deposit issued by the NBU	15	61,867	90,022	(9,534)	_	9,649	(72)	151,932

The NBU classifies interests paid as cash flows from operating activity in the consolidated statement of cash flows.

National Bank of Ukraine

Changes in liabilities resulted from financial activity in 2018:

	Note	As of 1 January 2018	Changes caused by cash flows	Interest expenses paid	Changes in exchange rate	Interest expenses accrued	Other	As of 31 December 2018
								(UAH million)
Issuance of banknotes and coins into circulation		361,759	38,575	_	-	-	_	400,334
Liabilities to the IMF	17	286,656	18,320	(9,429)	(6,440)	5,687	(32)	294,762
Term deposits	13	-	9	-	32	-	-	41
Certificates of deposit issued by the NBU		67,024	(5,076)	(7,566)	_	7,528	(43)	61,867

22 Interest Income and Expenses

	2019	2018
		(UAH million)
Interest income		
Income on domestic securities at amortized cost	32,500	42,980
Income on loans to banks and other borrowers	2,887	3,739
Income on accounts and deposits in foreign currency	1,170	801
Income on SDR holdings	6	219
Income on domestic public debt	135	157
Other	4	14
Total interest income at effective interest rate	36,702	47,908
Interest expenses		
Expenses on certificates of deposit issued by the NBU	(9,606)	(7,473)
Expenses on transactions with the IMF	(6,362)	(5,687)
Expenses on accounts of Deposit Guarantee Fund	(163)	(216)
Expenses on borrowings received	(136)	(134)
Other operating expenses	(1)	-
Total interest income at effective interest rate	(16,268)	(13,510)
Interest expenses on demand funds and term deposits with negative interest rate	(85)	(17)
Net interest income	20,349	34,381

Other interest income includes interest income on loans to employees.

In 2019, income on domestic securities at amortized cost included income on inflation-linked domestic government bonds of UAH 11,041 million (in 2018 - UAH 19,730 million).

The NBU changed the presentation of expenses on financial assets with negative interest rate. Expenses on amounts

placed with negative interest rate are presented within interest expenses (in 2019 - UAH 85 million, in 2018 - UAH 17 million). To provide a consistent presentation of information, the relevant expenses for 2018 have been reclassified from income on foreign currency funds and deposits and fees and commission expenses in the consolidated statement of comprehensive income in amount of UAH 7 million and UAH 10 million respectively.

23 Result on Transactions with Financial Assets and Liabilities in Foreign Currency and Monetary Gold

	2019	2018
		(UAH million)
Unrealized result on transactions with financial assets and liabilities in foreign currency and monetary gold	(53,074)	(9,271)
Realized result on transactions with financial assets and liabilities in foreign currency and monetary gold	9,633	7,048
Total result on transactions with financial assets and liabilities in foreign currency and monetary gold	(43,441)	(2,223)

24 Results on transactions with Financial Instruments at Fair Value through Profit or Loss

	2019	2018
		(UAH million)
Securities of nonresidents measured at fair value through profit or loss:		
Interest income	7,275	5,072
Unrealized gain allocated to revaluation reserve of financial instruments to their fair value	4,268	1,664
Unrealized loss compensated by revaluation reserve of financial instruments to their fair value	(18)	(47)
Unrealized loss not compensated by revaluation reserve of financial instruments to their fair value	(269)	(581)
Total unrealized gain on securities of nonresidents measured at fair value with revaluation result recognized through profit or loss	11,256	6,108
Realized result on securities of nonresidents measured at fair value through profit or loss (unrealized result that realized in the in current year)	1,747	561
Total results on securities of nonresidents measured at fair value through profit or loss	13,003	6,669
Derivative financial instruments		
Unrealized gain allocated to revaluation reserve of financial instruments to their fair value	427	41
Unrealized loss compensated by revaluation reserve of financial instruments to their fair value	_	(1)
Unrealized loss not compensated by revaluation reserve of financial instruments to their fair value	(1)	(6)
Total unrealized result on derivative financial instruments	426	34
Realized result on derivative financial instruments (unrealized results realized in current year)	7	(2)
Total result on derivative financial instruments Property rights on loan agreements the right of claim of which was transferred to the NBU	433	32
Realized result (unrealized result realized in the current year)	(5)	8
Total result on property rights under loan agreements the right of claim of which was transferred to the NBU	(5)	8
Total result on transactions with financial instruments at fair value through profit or loss	13,431	6,709

25 Other Income

	2019	2018
		(UAH million)
Income on sale of investment and commemorative coins, souvenirs and other products	681	1,013
Fines, penalties, forfeit received/returned	134	(85)
Gain on sale of fixed assets and intangible assets	74	2
Income on registration and granting licenses	3	4
NBU's share in profit of associated companies	76	29
Other	60	56
Total other income	1,028	1,019

26 Staff Costs

	2019	2018
		(UAH million)
Payroll	1,422	1,165
Single contribution for mandatory state social security and contributions to nonstate pension funds	320	282
Financial aid and other social benefits	14	5
Other	13	7
Total staff costs	1,769	1,459

Staff training and development costs, expenditures for voluntary medical insurance of employees, etc. were included in other staff costs.

27 Administrative and Other Expenses

	2019	2018
		(UAH million)
Consulting and legal services	111	298
Depreciation and amortization	207	237
Utilities and household expenses	160	163
Expenses for maintenance of noncurrent tangible and intangible assets	152	130
Maintenance and sale of collateral	152	-
Taxes, duties, and charges	29	64
Business trips	27	28
Telecommunication services and maintenance	24	23
Banknote Printing and Minting Works' expenses not included into cost of production	418	283
Other	92	94
Total administrative and other expenses	1,372	1,320

Depreciation and amortization charges in 2019 exclude depreciation of UAH 219 million (in 2018: UAH 241 million) for fixed assets used in the production of banknote paper, banknotes, coins, and other products. This portion of depreciation and amortization charges is included in costs related to the production of banknotes, coins, and other products.

NBU changed the presentation of costs of Banknote Printing and Minting Works that are not included into cost of production. In consolidated statement of comprehensive income for 2019 such expenses of UAH 418 million are indicated in *Administrative and other expenses*. In order to ensure a consistent presentation of 2018 information, the respective costs in the amount of UAH 283 million were transferred from item Costs related to production of banknotes, coins, souvenirs, and other products to item Administrative and other expenses of consolidated statement of comprehensive income and are outlined in this Note.

Other expenses include the cost of sales of the services of the waste treatment facilities of the Banknote Paper Mill, remuneration to members of the NBU Council, etc.

28 Financial Risk Management

The NBU manages its financial risks in order to limit potential losses of its financial assets, fulfill its financial obligations in due time, and protect its capital to achieve its strategic goals and effectively perform its functions, as set forth in the Ukrainian Law *On the National Bank of Ukraine*, as well as supporting its institutional capacity and independence.

Financial risk management processes are broken down into the following stages:

1) setting up a system of financial risk management

2) identifying adverse events/financial risks in the NBU's processes/products

3) measuring financial risks

4) deciding on and taking measures in response to financial risks (addressing financial risks)

5) controlling risks

6) communicating and reporting risks

7) monitoring the system of financial risk management.

The NBU detailed the stages of financial risk management processes in its process procedures and other executive orders related to financial risk management.

The NBU Board is responsible for implementing the risk management system and ensuring that NBU risks are managed.

In accordance with the Ukrainian Law *On the National Bank* of *Ukraine*, the NBU Board established an asset and liability management committee, and charged it with managing the central bank's assets and liabilities, including Ukraine's foreign exchange reserves, as well as with monitoring risks arising from, and profits or losses incurred from, transactions with NBU assets and liabilities.

The NBU Board or the Asset and Liability Management Committee, within the powers delegated to it by the NBU Board, choose and approve measures in response to financial risks (address financial risks) based on proposals submitted by the NBU units that carry out transactions with financial instruments and by the Office for Financial and Operational Risks. These measures are chosen and approved through taking decisions on financial risk management and/or through outlining such measures in the central bank's regulations and/or executive orders.

The NBU units that are responsible for conducting and/or carry out transactions with financial instruments are the first line of defense in financial risk management processes. These units have been charged with identifying and measuring financial risks, deciding on and taking measures in response to financial risks, and reporting financial risks that arise from the operations that fall under their mandate.

The Financial Risk Division, which is a part of the Office for Financial and Operational Risks, is the second line of defense in financial risk management processes. This division is responsible for:

1) providing methodological, coordinative and organizational support for the central bank's financial risk management processes, among other things, through updating financial risk management policies

2) developing and supporting procedures and methodologies for measuring financial risks

3) overseeing, monitoring, and conducting an independent analysis of financial risks at the level of the central bank's second line of defense

4) analyzing, on request, new operations with financial instruments, new financial instruments, and changes to operations involving financial instruments so as to see how they could affect the NBU's financial risks, and making recommendations on responses to identified financial risks (addressing risks)

5) assessing the NBU's financial risk profile

6) reporting the NBU's financial risks to the central bank's Asset and Liability Management Committee.

The NBU's financial risks are grouped as follows:

- financial risks related to the policies determined and conducted by the NBU. These risks arise from financial instruments and are related to the central bank's performance of its main function and other functions, as set forth in Articles 6 and 7 of the Ukrainian Law On the National Bank of Ukraine, with the exception of paragraph 15 of Article 7 of the Ukrainian Law On the National Bank of Ukraine
- financial risks arising from Ukraine's international (foreign exchange) reserves
- financial risks arising from the management of the pension assets of the NBU Corporate Non-State Pension Fund.
- other financial risks of the NBU.

The measures the NBU takes in response to financial risks depend on the central bank's tolerance to certain risk groups.

The main measures the NBU relies on to address financial risks are as follows:

1) avoiding or preventing a financial risk by taking a conscious decision not to carry out operations or use financial instruments that pose risks to the central bank, where such

risks exceed the level of the NBU's tolerance towards the group of risks in question

2) mitigating or decreasing financial risks through:

- diversification
- setting limits on the quantitative indicators of risks
- establishing the conditions and rules for the qualitative indicators of risks
- using various types of collateral to make sure that borrowers or counterparties discharge their obligations, and adjusting the fair value of such collateral, taking into account risk discounts or adjusting factors

3) using hedges to transfer financial risks

4) accepting financial risks through making provisions and covering financial risks with the NBU's own funds.

The NBU distinguishes between credit, market and liquidity risks based on the factors that generate the respective financial risks.

Credit risk

Credit risk is the possibility of incurring losses, additional expenses or receiving less income due to the failure of a borrowing bank, or the failure of any other borrower or counterparty to discharge their obligations to the NBU in accordance with the terms and conditions agreed. Credit risk is broken down into:

default risk, which is defined as a risk arising from the failure of a counterparty/issuer/borrower to discharge their obligations to the NBU. This includes pre-settlement risk (the possibility that a counterparty will fail to meet their obligations to the NBU, resulting in default before the settlement date), and settlement risk (the possibility that, once the NBU has discharged its obligations to a counterparty, that the counterparty will fail to meet their obligations to the NBU, resulting in default on the settlement date).

The risk of a credit rating decrease is defined as the possibility that the credit rating of a counterparty/issuer will be downgraded below the minimum acceptable credit rating that allows the NBU to include the assets arising from this counterparty/issuer in its international (foreign exchange) reserves.

Market risk

Market risk is defined as the possibility of incurring losses, additional expenses or receiving less income due to

unfavorable movements in market prices, such as exchange rates, interest rates, and prices for financial instruments and goods. Market risk is broken down into:

currency risk, which is defined as a market risk arising from unfavorable fluctuations in exchange rates; interest rate risk is a market risk arising from unfavorable changes in market interest rates that adversely affect the value of debt securities or other fixed-income instruments, as well as the value of derivative financial instruments (derivatives)

credit spread risk is a market risk arising from a widening (increase) in credit spreads between the yield to maturity of a fixed-income security or another financial instrument and riskfree yields to maturity with a similar duration, which has an adverse impact on the market value of such instruments. A widening in a credit spread can result from a downgrading in the credit rating or a decrease in the credit quality of the issuer of a financial instrument, or from overall changes in market conditions.

equity risk is a market risk arising from unfavorable changes in the market value of non-fixed-income shares and other securities

commodity risk is a market risk arising from unfavorable changes in the market value of commodities, including precious metals, such as gold

volatility risk is a market risk arising from unfavorable changes in the volatility of market prices, interest rates, market indices, and exchange rates, which decrease the value of options, including those that have been embedded in other financial instruments.

Of the market risks, the NBU has the greatest exposure to currency and interest rate risks.

The table below shows an analysis of the sensitivity of the NBU's positions to currency risk. The analysis was conducted on the assumption of a 20% and 5% increase/decrease in the exchange rates of the U.S. dollar, Euro, SDR and other currencies against the hryvnia in 2019 and 2018 respectively.

The analysis factors in only the foreign currency amounts (apart from nonmonetary assets) that were available at the end of the period. Exchange rates adjusted by 20% and 5% respectively in relation to those that were in effect in late 2019 and 2018 respectively were used to translate those amounts into hryvnias.

The effect of exchange rate movements on profit or loss and profit for the year was as follows:

	3	31 December 2019	31 De	ecember 2018
			(in	UAH millions)
	+20%	-20%	+5%	-5%
US dollar	89,913	(89,913)	19,258	(19,258)
Euro	10,649	(10,649)	3,602	(3,602)
SDR	(34,138)	34,138	(10,853)	10,853
GBP	2,741	(2,741)	864	(864)
Other currencies	6,714	(6,714)	2,079	(2,079)

The table below presents an analysis of the sensitivity of the NBU's positions to credit risk. The effect on profit or loss and profit for the year was as follows:

	31 D	ecember 2019	31 De	cember 2018
			(in	UAH millions)
	+100 bp	-100 bp	+100 bp	-100 bp
Sensitivity of interest-bearing financial assets	2,891	(2,891)	3,108	(3,108)
Sensitivity of interest-bearing financial liabilities	(3,131)	3,131	(2,757)	2,757
Net impact on profit or loss and distributable profit	(240)	240	351	(351)

Sources of interest rate risk are identified through analyzing the existing composition of interest-bearing assets and liabilities. The NBU assesses interest rate risk using an analysis of its sensitivity to interest rate movements, i.e. changes in the market value of instruments and portfolios as a result of movements in the yield curve by a certain number of basis points. In accordance with the relevant methodology, the scenarios used included a parallel shift in the entire curve by 1 percentage point (+/-100 basis points). Sensitivity to interest rate risk is estimated on the basis of a scenario according to which all interest rate curves are believed to change in the same manner for all financial instruments and currencies. The assessments take into account interest rate risk arising from all of the NBU's positions in instruments with fixed and floating interest rates, as defined by the respective model.

Liquidity risk

The NBU breaks liquidity risk down into:

the liquidity risk of Ukrainian international (foreign exchange) reserves. This risk can arise when the NBU has difficulties in quickly selling or recalling a large amount of assets in which Ukrainian international (foreign exchange) reserves are held. Sometimes unfavorable market conditions can also decrease the prices of such assets FX liquidity risk, which can arise when the NBU is unable to meet is foreign currency obligations as they fall due.

Due to the fact that according to paragraph 2, Article 7 of the Ukrainian Law *On the National Bank of Ukraine*, the NBU has a monopoly on issuing Ukraine's national currency and is responsible for arranging cash circulation, the NBU is not exposed to national currency liquidity risk. This risk is defined as the central bank's possible failure to meet its national currency obligations as they fall due.

The NBU manages its liquidity risk through:

maintaining certain amounts of cash, as required by the relevant regulations, on its correspondent accounts

holding sufficient amounts of highly liquid financial instruments that can be easily monetized

setting requirements on the liquidity of the assets in which international (foreign exchange) reserves are held.

For a detailed assessment of financial risks, see Notes 29 to 33.

29 Analysis of Financial Assets and Liabilities by Geographical Concentration Risk

As of 31 December 2019, the geographical concentration risk of the NBU's financial assets and liabilities was presented as follows:

	Ukraine	OECD countries	IMF	Other	Total
	-			(i	n UAH million)
Financial assets					
Funds and deposits in foreign currencies	589	88,819	-	112	89,520
Foreign securities	-	435,146	-	69,833	504,979
SDR holdings	-	-	234	_	234
Domestic securities	347,191	-	_	_	347,191
Loans to banks and other borrowers	13,843	_	_	_	13,843
Domestic public debt	1,727	-	_	-	1,727
IMF quota contributions	-	_	65,894	_	65,894
Other financial assets	88	21	127	-	236
Total financial assets	363,438	523,986	66,255	69,945	1,023,624
Financial liabilities					
	102.020				
Banknotes and coins in circulation	425,256	-	-	-	425,256
Accounts of banks	78,441	-	-	3	78,444
Accounts of government and other institutions	38,981	1	-	-	38,982
Certificates of deposit issued by the NBU	151,932	-	-	-	151,932
Borrowings received	-	2,369	-	_	2,369
Liabilities to the IMF except for quota contributions	_	_	171,059	_	171,059
Liabilities to the IMF in respect of quota contributions	_	-	65,886	_	65,886
Other financial liabilities	577	95	_	-	672
Total financial liabilities	695,187	2,465	236,945	3	934,600
Net balance sheet position	(331,749)	521,521	(170,690)	69,942	89,024

As of 31 December 2018, the geographical concentration risk of the NBU's financial assets and liabilities was presented as follows:

	Ukraine	OECD countries	IMF	Other	Tota
				(UAH millior
Financial assets					
Funds and deposits in foreign currencies	1,816	114,753	-	112	116,6
Foreign securities	-	345,277	-	87,714	432,9
SDR holdings	-	-	100	-	
Domestic securities	361,436	-	-	-	361,4
Loans to banks and other borrowers	22,145	-	-	-	22,
Domestic public debt	1,834	-	-	-	1,
IMF quota contributions	-	-	77,472	-	77,4
Other financial assets	214	-	132	-	:
Total financial assets	387,445	460,030	77,704	87,826	1,013,0
Financial liabilities					
Banknotes and coins in circulation	400,334	-	-	-	400,
Accounts of banks	38,508	-	-	1	38,
Accounts of government and other institutions	47,726	1	-	-	47,
Certificates of deposit issued by the NBU	61,867	-	-	-	61,
Borrowings received	-	2,769	-	-	2,
Liabilities to the IMF except for quota contributions	-	-	217,300	-	217,
Liabilities to the IMF in respect of quota contributions	-	-	77,462	-	77,
Other financial liabilities	551	23	-	-	4
Total financial liabilities	548,986	2,793	294,762	1	846,
Net balance sheet position	(161,541)	457,237	(217,058)	87,825	166,4

30 Credit risk

The following information provides gross carrying amounts of the NBU's financial assets assessed by impairment stages and credit ratings of counterparties assigned by the following international rating agencies: Fitch Ratings, Moody's, and Standard & Poor's. The following disclosures as of 31 December 2019 and 2018 consider a lower of the two best ratings assigned to an entity by the above rating agencies. The ratings are listed below as per coding of the rating agency of Fitch Ratings using the rating correspondence table of Bloomberg. The following information is provided as of 31 December 2019:

	Credit rating	Total	% in financial assets	Stage 1	Stage 2	Stage 3
Funds and deposits in foreign currencies:						
Demand deposits	AAA	8,568	9.6	8,568	_	_
	AA+	6	0.0	6	-	-
	AA	253	0.3	253	_	-
	AA-	2	0.0	2	-	-
	A+	2,705	3.0	2,705	_	_
	А	709	0.8	709	-	-
	A-	1,850	2.1	1,850	_	-
Term deposits	AAA	8,299	9.3	8,299	-	-
	AA+	35,967	40.2	35,967	-	-
	AA-	13,966	15.5	13,966	-	-
	A+	187	0.2	187	-	-
	А	16,429	18.4	16,429		
Foreign currency cash	Riskless	589	0.6	589	-	-
Total funds and deposits in foreign currencies:		89,530	100.0	89,530	-	-
Foreign securities:						
Government bonds	AAA	273,942	54.3	273,942	-	-
	AA+	5,190	1.0	5,190	-	-
	AA	9,690	1.9	9,690	-	-
	AA-	448	0.1	448	-	-
	A+	3,969	0.8	3,969	-	-
Bonds of international agencies, banks, and other issuers	AAA	32,487	6.4	32,487	_	-
	AA+	5,158	1.0	5,158	_	-
	AA	14,140	2.8	14,140	_	-
	AA-	22,312	4.4	22,312	_	-
	A+	71,513	14.2	71,513	_	-
	А	59,969	11.9	59,969	-	-
	A-	6,040	1.2	6,040	-	-
Total foreign debt securities		504,858	100.0	504,858	-	-
Domestic securities:						
Government securities	В	346,427	99.7	346,427	-	-
Corporate securities	Not rated	953	0.3	-	-	953
Total domestic securities		347,380	100.0	346,427	-	953
Loans to banks and other borrowers:						
Loans to banks	B- Not rated	7,712 44,008	14.9 85.0	- 104	-	7,712 43,904
Loans to the Deposit Guarantee Fund	Not rated	_	-	_	-	
Loans to other borrowers	Not rated	38	0.1	_	_	38
Total loans to banks and other borrowers		51,758	100.0	104	-	51,654
Domestic public debt	В	1,727	100.0	1,727	-	-
Other financial assets	AAA	127	50.0	127	-	_
	AA	3	1.2	3		
	Not rated	124	48.8	124	-	-
Total other financial assets		254	100.0	254	-	-

The following information is provided as of 31 December 2018:

	Credit rating	Total	% in financial assets	Stage 1	Stage 2	Stage
					(۱	JAH millior
Funds and deposits in foreign currencies	:					
Demand deposits	AAA	27,096	23.2	27,096	_	
	AA+	9	0.0	9	_	
	AA	856	0.7	856	-	
	AA-	2	0.0	2	-	
	A+	9,818	8.4	9,818	-	
	А	3,821	3.3	3,821	_	
Term deposits	AAA	9,986	8.6	9,986	_	
	AA+	5,349	4.6	5,349	_	
	AA-	1,901	1.6	1,901	_	
	A+	29,933	25.6	29,933	-	
	А	26,119	22.4	26,119		
Foreign currency cash	Riskless	1,816	1.6	1,816	-	
Total funds and deposits in foreign currencies:		116,706	100.0	116,706	_	
Foreign securities:						
Government bonds	AAA	180,840	41.8	180,840	-	
	AA+	5,941	1.4	5,941	_	
	AA	4,491	1.0	4,491	_	
	AA-	3,167	0.7	3,167	-	
	A+	1,349	0.3	1,349	_	
Bonds of international agencies, banks,		.,		.,		
and other issuers	AAA	37,402	8.6	37,402	-	
	AA+	11,662	2.7	11,662	-	
	AA	15,178	3.5	15,178	-	
	AA-	24,127	5.6	24,127	-	
	A+	80,656	18.6	80,656	_	
	А	64,591	14.9	64,591	_	
	A-	3,466	0.9	3,466	_	
Fotal foreign debt securities		432,870	100.0	432,870	-	
Domestic securities	B-	361,436	100.0	361,436	_	
Fotal domestic securities		361,436	100.0	361,436	_	
oans to banks and other borrowers:						
Loans to banks	B-	9,810	15.5	-	-	9,81
	Not rated	51,788	82.1	4,302	-	47,48
Loans to the Deposit Guarantee Fund	Not rated	1,458	2.3	1,458	-	
Loans to other borrowers	Not rated	38	0.1	-	-	3
Fotal loans to banks and other borrowers		63,094	100.0	5,760	-	57,33
Domestic public debt	B-	1,834	100.0	1,834	-	
Other financial assets	AAA	132	36.9	132	-	
	Not rated	226	63.1	221	1	
Total other financial assets		358	100.0	353	1	

Loans granted to banks to support their liquidity that do not have international ratings assigned include the loans to domestic banks to support their liquidity the ratings of which are determined in accordance with the internal methodology of the NBU.

As of 31 December 2019, the gross carrying value balance in the amount of UAH 104 million had the internal rating of C (as of 31 December 2018, UAH 4,302 million and UAH 1 million had the internal ratings of BBB and CCC, respectively).

The NBU determines internal ratings as follows:

AAA rating is the highest grade of a counterparty's creditworthiness. The counterparty's financial position is assessed as strong and stable in a long-term perspective, and the ability to repay on a timely basis and in full the interest and principal on debt obligations is very high.

BBB rating is a medium grade of a counterparty's creditworthiness. The counterparty's financial position is assessed as strong and stable in a mid-term perspective, the counterparty's debt obligations have a higher risk of non-payment compared to counterparties with higher ratings. However, difficulties may arise with timely and full repayment of the interest and principal on debt obligations in the event

of occurrence of unfavorable changes in commercial, financial, and economic conditions, although, in the nearest future, a probability of the counterparty's failure to meet its debt obligations is treated as low.

BB rating is a medium grade of a counterparty's creditworthiness. The counterparty's financial position is assessed as satisfactory and stable in a short-term perspective, the counterparty is able, at the date of assessment, to repay the interest and principal on debt obligations, but has a higher probability of default on obligations than the counterparty with BBB rating.

B rating is a grade of a counterparty's creditworthiness that is somewhat lower than medium. Key indicators of the counterparty's financial position are assessed as satisfactory and stable in a short-term perspective, it has a sufficient level of financial reliability. Timely and complete payments on debt obligations mostly depend on commercial, financial, and economic conditions.

CCC rating is a lower than medium grade of a counterparty's creditworthiness. Key indicators of the counterparty's financial position are assessed as satisfactory, but their stability in a short-term perspective is doubtful, it has a low level of financial reliability. The counterparty bank's ability to pay is fully dependent on domestic economic situation.

CC rating is a low grade of a counterparty's creditworthiness. Key indicators of the counterparty's financial position are assessed as satisfactory, but their deterioration in a shortterm perspective is considered as highly probable, it has a very low level of financial reliability. The counterparty bank's ability to pay is fully dependent on domestic economic situation.

C rating is a very low grade of a counterparty's creditworthiness, which is considered to be pre-default. The counterparty's financial position is unstable and is assessed as unsatisfactory. Repayments of interest and principal on debt obligations may be suspended by the counterparty without obtaining a consent of lenders on the debt restructuring before maturities. The counterparty bank's ability to pay is fully dependent on domestic economic situation.

Domestic securities without international ratings assigned include corporate bonds of state-owned entities whose ratings are limited by the sovereign rating of Ukraine.

Total loans granted to five banks with the highest level of credit exposures as of 31 December 2019 amounted to UAH 37,114 million (as of 31 December 2018: UAH 42,048 million), or 69% (31 December 2018: 67%) of total loans to banks and other borrowers, before allowance. The allowance recognized on the loans granted to five banks amounted to UAH 26,185 million as of 31 December 2019 (31 December 2018: UAH 28,002 million).

	Maximum credit risk exposure	Cost of collateral accepted as security	Net credit risk (loans to banks)	Net credit risk (domestic public debt)
				(UAH million)
Loans secured by:				
Real estate	11,397	28,758	11,397	-
Securities	95	102	-	-
Other types of collateral	2,351	3,706	2,342	-
Unsecured loans	1,727	-	-	1,727
Total loans to banks and other borrowers	15,570	32,566	13,739	1,727

Summarized below is information on net credit risk by types of collateral received as of 31 December 2019:

Summarized below is information on net credit risk by types of collateral received as of 31 December 2018:

	Maximum credit risk exposure	Cost of collateral accepted as security	Net credit risk (loans to banks)	Net credit risk (domestic public debt)
				(UAH million)
Loans secured by:				
Real estate	13,669	30,669	13,604	-
Securities	5,696	7,014	-	-
Other types of collateral	2,780	4,409	2,776	-
Unsecured loans	1,834	-	-	1,834
Total loans to banks and other borrowers	23,979	42,092	16,380	1,834

As of 31 December 2019 and 2018, there is no credit risk exposure under loans to the Deposit Guarantee Fund.

accepted as security is the fair value of collateral used by the NBU in the calculation of allowance at the reporting date.

Maximum credit risk exposure is represented by the carrying amounts of loans outstanding at the reporting date. Collateral

The following information summarizes the gross carrying amounts of loans by collateral types as of 31 December 2019:

	Loans to banks to support their liquidity	Loans granted under credit lines to support small and medium enterprises from funds received from the European Bank for Reconstruction and Development	Loans to the Deposit Guarantee Fund and other borrowers	Domestic public debt	Total
					(UAH million)
Loans secured by:					
Real estate	14,993	-	-	-	14,993
Securities	95	-	-	-	95
Property rights on loan agreements	1,993	-	-	-	1,993
Other types of collateral	989	-	-	-	989
Unsecured loans Total loans to banks and other	33,650	36	2	1,727	35,415
borrowers	51,720	36	2	1,727	53,485

The following information summarizes the gross carrying amounts of loans by collateral types as of 31 December 2018:

	Loans to banks to support their liquidity	Loans granted under credit lines to support small and medium enterprises from funds	Loans to the Deposit Guarantee Fund and other	Domestic public debt	Tota
		received from the European Bank for	borrowers		
		Reconstruction and Development			
		· · ·			(UAH million
Loans secured by:					
Real estate	17,893	-		-	17,893
Securities	4,238	_	1,458	_	5,696
Property rights on loan agreements	2,636	-	-	_	2,636
Other types of collateral	1,042	-	-	_	1,042
Unsecured loans	35,789	36	2	1,834	37,661
Total loans to banks and other borrowers	61,598	36	1,460	1,834	64,928

The NBU conducts operations on banks refinancing by granting them overnight and refinancing loans and, as of 31 December 2019 and 2018, it had outstanding amounts due on such loans. The NBU grants to banks overnight and refinancing loans that are provided by a pool to include the following types of assets (property): government bonds, certificates of deposit issued by the NBU, bonds of international financial organizations (issued in accordance with the legislation of Ukraine), and foreign currencies (USD, EUR, GBP, CHF, JPY).

To secure for fulfillment of obligations under the stabilization loans granted to banks to support their liquidity before 2017 and which remained outstanding as of 31 December 2019 and 2018, the NBU accepted securities (domestic government bonds and corporate bonds, including those provided by the guarantee of the Cabinet of Ministers of Ukraine), foreign currencies, shares of banks' qualifying holders, real estate, and property rights under loan agreements. Effective from 2017, the NBU has ceased to grant stabilization loans. Instead of stabilization loans, the NBU may grant to banks loans of urgent liquidity support, but no such loans to banks have been granted yet.

For the banks and other borrowers estimated at Stage 3 of impairment, the cash flows from which are expected to be received only upon the sale of collateral, net credit risk is equal to the maximum credit exposure. For the banks and other borrowers estimated at Stages 1 and 2 of impairment, net credit risk is calculated as the difference between the maximum credit exposure and value of the collateral accepted to secure for assets.

For all groups of assets, the NBU determines default as inability or reluctance of a counterparty/issuer/borrower to fulfill its financial liabilities to the NBU, which leads to direct financial losses from the credit risk materialization. A default on obligations to the NBU is recognized, in particular, on outstanding financial assets which, at the reporting date, have at least one past due payment exceeding 90 calendar days.

For the purpose of estimating allowances for financial assets and liabilities within the general approach, the NBU uses a model of expected credit losses, a key element of which is to reflect on a timely basis deterioration or improvement of credit quality of financial instruments with reference to the effect of current and forward-looking information. Amount of expected credit losses depends on the degree of decrease in credit quality from the date of the initial recognition of a financial instrument.

The NBU recognizes credit losses as the difference between all cash flows payable by a counterparty/issuer/borrower under contractual terms and all cash flows the NBU expects to receive discounted at the effective interest rate. In determining future cash flows to calculate expected credit losses, the NBU considers all conditions of a financial instrument over its life (e.g., option of early repayment, term extension, requirements to early repay a loan, and other similar options). Cash flows that are taken into consideration include cash flows from sales of pledged property or other sources that improve the financial instrument's credit quality, which form an integral part of contractual terms. The NBU applies professional judgments/assumptions in order to be able to reliably estimate the expected life of financial instruments.

Professional judgments/assumptions represent a documented reasonable decision of the NBU's staff based on the following:

compliance of actual actions in determining each component for assessing expected credit losses with requirements of the NBU's methodology on assessment of expected credit losses on financial instruments

a comprehensive and objective analysis of all the information that has an effect on measuring the components and factors (events, features) for assessing credit risk and expected credit losses

the NBU's own experience based on reliable, consistent, complete, and integral statistical data accumulated for at least three consecutive years

ensuring a full, timely, and objective assessment of credit risk and expected credit losses in compliance with the principles determined by the NBU's methodology on assessment of expected credit losses on financial instruments

To calculate expected credit losses, the NBU uses the following three approaches:

1) group assessment (credit risk parameters), according to which an expected credit loss is a multiplication result of loss given default, probability of default, and exposure at default, with reference to the forecast scenarios weighted by probability

2) group assessment (repayment scenarios), with reference to the unconditional probability of their occurrence, according to which an expected credit loss is a present value of the difference between estimated contractual cash flows payable to the NBU under the loan agreements discounted at the effective interest rate and all cash flows the NBU expects to receive under probable scenarios of loan repayments discounted at the effective interest rate

3) individual assessment (customized repayment scenarios), according to which an expected credit loss is a present value of the difference between estimated contractual cash flows payable to the NBU under the loan agreements discounted at the effective interest rate and all cash flows the NBU expects to receive under customized scenarios of loan repayments discounted at the effective interest rate.

The 12-month expected credit losses form a part of the lifetime expected credit losses that may result from a borrower's default event that occurs during 12 months from the reporting date (or a shorter period, if the expected life of the financial instrument is less than 12 months).

The 12-month expected credit losses reflect expected shortfalls of the lifetime cash flows that may result from a default event that occurs during 12 months from the reporting date weighted by probability of default (or probability of a certain range of possible loan repayment scenarios) assessed on the basis of a cumulative probability of a borrower's default during 12 months after the reporting date (or the remaining lifetime).

Lifetime expected credit losses of financial instruments are expected credit losses that may result from a borrower's default event over the expected life of a financial instrument.

Lifetime expected credit losses reflect expected shortfalls in amounts of the lifetime cash flows that may result from a default event that occurs during the lifetime from the reporting date weighted by probability of default (or probability of a certain range of possible loan repayment scenarios) assessed on the basis of a cumulative probability of a borrower's default during the remaining lifetime of a financial instrument as at the reporting date.

A significant increase in credit risk is assessed based on both types of information: quantitative and qualitative factors including the internal credit ratings of borrowers that address changes in the credit risk as at the reporting date. If own historical data on losses are unavailable or insufficient, it is allowed to use historical data of other institutions on comparable groups of assets. The NBU's staff professional judgement is also allowed.

Own experience regarding losses is adjusted on the basis of current information and economic forecasts in order to reflect the effect of current and forecasted economic conditions that did not exist in the period to which the available historical data on losses belong and exclude the effect of conditions of said period that were nonexistent as at the reporting date.

If own historical statistical information regarding losses is used in order to assess future cash flows, such historical data should be applied only to those groups of assets that have been defined on the principles that are similar to the principles applied in respect of the groups on which the historical data about losses are based. The information on actual and forecasted economic conditions (macroeconomic indicators) is used for calculating the probability of default taking into consideration the effect of future economic conditions as well as for choosing discounts applied to the collateral value depending on the stage of the economic cycle.

Thus, the methods applied should allow comparing historical losses for the group of assets with similar characteristics of credit risk with the actual data that reflect current conditions as well as forecasts for the future economic situation.

Objective evidence of impairment is recognized at the level of a financial instrument. An instrument-by-instrument approach means that if there is at least one indicator of objective evidence of impairment of a financial instrument, such instrument with its borrower and all the financial instruments of that borrower are recognized as exposed to objective evidence of impairment. An event of default is one of the objective indicators proving the impairment.

31 Foreign Currency Risk

As of 31 December 2019, the NBU had the following positions in currencies:

	UAH	USD	EUR	SDR	GBP	Other	Nonmonetary	Total
							(UAH million)
Financial assets								
Funds and deposits in foreign currencies	_	78,875	7,028	_	1,596	2,021	_	89,520
Foreign securities	-	404,754	56,432	_	12,109	31,563	121	504,979
SDR holdings	_	-	-	234	-	-	_	234
Domestic securities	346,204	987	_	_	_	_	-	347,191
Loans to banks and other borrowers	13,843	-	_	_	_	_	-	13,843
Domestic public debt	1,727	-	_	_	_	_	-	1,727
IMF quota contributions	_	_	-	65,894	-	-	_	65,894
Other financial assets	88	-	21	127	-	_	-	236
Total financial assets	361,862	484,616	63,481	66,255	13,705	33,584	121	1,023,624
Financial liabilities								
Banknotes and coins in circulation	425,256	-	-	_	-	-	-	425,256
Accounts of banks	54,396	23,979	63	_	1	5	_	78,444
Accounts of government and other institutions	20,245	8,568	10,169	_	_	_	_	38,982
Certificates of deposit issued by the NBU	151,932	_	_	_	_	_	_	151,932
Borrowings received Liabilities to the IMF apart from	-	2,369	-	-	_	-	-	2,369
quota contributions	_	_	_	171,059	_	_	_	171,059
Liabilities to the IMF in respect of quota settlement	_	_	_	65,886	_	_	_	65,886
Other financial liabilities	526	134	5	-	-	7	-	672
Total of financial liabilities	652,355	35,050	10,237	236,945	1	12	-	934,600
Net balance sheet position	(290,493)	449,566	53,244	(170,690)	13,704	33,572	121	89,024

As of 31 December 2018, the NBU had the following positions in currencies:

Net balance sheet position	(132,643)	385,151	72,030	(217,058)	17,276	41,586	121	166,46
Total of financial liabilities	517,580	28,356	5,839	294,762	1	4	-	846,54
Other financial liabilities	537	12	25	-	-	_	-	57
quota contributions Liabilities to the IMF in respect of quota settlement	-	-	-	77,462	-	-	-	77,46
Liabilities to the IMF apart from	-	-	-	217,300	-	-	-	217,30
Borrowings received	-	2,769	-	-	-	-	-	2,76
institutions Certificates of deposit issued by the NBU	61,867	-	-	-	-	-	-	61,86
Accounts of government and other	17,002	25,040	5,685	-	-	-	-	47,72
Accounts of banks	37,840	535	129	-	1	4	-	38,50
Banknotes and coins in circulation	400,334	-	-	-	-	-	_	400,33
Financial liabilities								
Total financial assets	384,937	413,507	77,869	77,704	17,277	41,590	121	1,013,00
Other financial assets	214	-	-	132	-	-	-	34
IMF quota contributions	-	-	-	77,472	-	-	-	77,47
Domestic public debt	1,834	-	-	-	-	-	-	1,83
Loans to banks and other borrowers	22,145	-	-	-	-	-	-	22,14
Domestic securities	360,744	692	-	-	-	-	-	361,43
SDR holdings	-	-	-	100	-	-	-	10
Foreign securities	-	342,632	52,536	-	10,102	27,600	121	432,99
Funds and deposits in foreign currencies	-	70,183	25,333	-	7,175	13,990	-	116,68
Financial assets								
							(L	JAH millio
	UAH	USD	EUR	SDR	GBP	Other	Nonmonetary	Tot

Assets and liabilities in other currencies mainly included positions in CHF, AUD, JPY, and CNY.

32 Interest Rate Risk

As of 31 December 2019, the NBU had the following structure of the weighted average interest rates by major currencies for monetary financial interest-bearing instruments. Interest rates on each financial instrument has been calculated as weighted-average contractual rates at the reporting date.

	UAH	USD	EUR	SDR	GBP	Other	Total weighted average interest rate
Financial assets							(%)
Time deposits in foreign currency in							
OECD	-	1.65	-	-	0.80	2.81	1.65
Foreign securities	-	1.78	0.04	-	0.76	1.90	1.57
SDR holdings	_	_	_	0.75	-	-	0.75
Domestic securities	10.44	-	-	_	-	-	10.44
Loans to banks and other borrowers	17.7	_	_	_	_	_	17.70
Domestic public debt	8.68	_	_	_	-	_	8.68
Financial liabilities							
Deposit Guarantee Fund	9.53	-	-	_	-	-	9.53
Certificates of deposit issued by the NBU	12.73	_	_	_	-	_	12.73
Borrowings received	-	4.88	-	-	_	-	4.88
Liabilities to the IMF apart from quota contributions	_	-	-	3.06	_	-	3.06

The sign "–" in the table above means that the NBU has no respective interest-bearing assets or liabilities in corresponding currency.

Interest is accrued at floating rates on SDR holdings and liabilities to the IMF (interest rates are reviewed on a weekly basis).

Also domestic securities include indexed government debt securities.

Interest rates used for accruing expenses on accounts of the Deposit Guarantee Fund are not fixed, and their amounts correspond to weighted average interest rates on demand deposits of individuals in the national currency.

Interest on foreign securities is accrued at both variable and fixed rates.

As of 31 December 2018, the NBU had the following structure of the weighted average interest rates by major currencies for monetary financial interest-bearing instruments.

Interest rates on each financial instrument has been calculated as weighted-average contractual rates at the reporting date.

	UAH	USD	EUR	SDR	GBP	Other	Total weighted average interest rate (%)
Financial assets							. ,
Time deposits in foreign currency in OECD	_	2.61	_	_	0.79	2.45	2.45
Foreign securities	_	2.80	0.17	-	1.04	3.06	2.45
SDR holdings	_	-	-	1.11	-	-	1.11
Domestic securities	13.17	-	_	-	_	-	13.17
Loans to banks and other borrowers	18.13	-	_	_	-	-	18.13
Domestic public debt	8.53	-	_	_	-	-	8.53
Financial liabilities							
Deposit Guarantee Fund	4.00	-	_	_	-	-	4.00
Certificates of deposit issued by the NBU	17.03	-	_	_	_	_	17.03
Borrowings received Liabilities to the IMF apart from quota	-	5.19	-	-	-	-	5.19
contributions	-	-	-	3.26	-	-	3.26

Analysis of assets and liabilities by periods of interest rate repricing

The table below presents analysis of assets and liabilities by periods of interest rate repricing.

For financial assets and liabilities with fixed interest rates, classification was determined based on the contractual maturity date from the consolidated statement of financial position date. For assets and liabilities with variable interest rates, classification was determined taking into account the earlier of repricing period or maturity date.

As of 31 December 2019, financial assets and liabilities by periods of interest rate repricing were as follows:

	On demand and up to 1 month	1–3 months	3–12 months	1–5 years	Over 5 years	Non- interest bearing	Total
						(UAH million)
Financial assets							
Funds and deposits in foreign currencies	83,721	4,086	_	-	-	1,713	89,520
Foreign securities	30,054	73,963	101,639	297,887	1,315	121	504,979
SDR holdings	234	-	-	-	-	-	234
Domestic securities	6,272	9,667	150,481	47,714	132,070	987	347,191
Loans to banks and other borrowers	6,442	_	_	7,401	-	_	13,843
Domestic public debt	-	27	81	432	1,187	-	1,727
IMF quota contributions	-	-	-	-	-	65,894	65,894
Other financial assets	5	1	6	21	13	190	236
Total financial assets	126,728	87,744	252,207	353,455	134,585	68,905	1,023,624

	On demand and up to 1 month	1–3 months	3–12 months	1–5 years	Over 5 years	Non- interest bearing	Total
Financial liabilities							
Banknotes and coins in circulation	_	_	_	_	-	425,256	425,256
Accounts of banks	-	_	-	-	-	78,444	78,444
Accounts of government and other institutions	2,498	_	-	-	-	36,484	38,982
Certificates of deposit issued by the NBU	151,932	_	-	-	-	_	151,932
Borrowings received	_	2,369	_	_	-	_	2,369
Liabilities to the IMF apart from quota contributions	170,172	_	-	-	-	887	171,059
Liabilities to the IMF in respect of quota settlement	-	_	_	_	_	65,886	65,886
Other financial liabilities	-	_	_	-	-	672	672
Total of financial liabilities	324,602	2,369	_	-	-	607,629	934,600
Net gap	(197,874)	85,375	252,207	353,455	134,585	(538,724)	89,024
Cumulative gap	(197,874)	(112,499)	139,708	493,163	627,748	89,024	

As of 31 December 2018, financial assets and liabilities by periods of interest rate repricing were as follows:

	On demand and up to 1 month	1–3 months	3–12 months	1–5 years	Over 5 years	Non- interest bearing	Total
						(UAH million)
Financial assets							
Funds and deposits in foreign currencies	103,202	10,794	_	_	_	2,685	116,681
Foreign securities	24,720	65,997	107,492	233,977	684	121	432,991
SDR holdings	100	_	_	_	_	_	100
Domestic securities	7,879	7,082	153,593	48,083	144,107	692	361,436
Loans to banks and other borrowers	9,630	3,517	1,528	7,470	_	_	22,145
Domestic public debt	-	27	81	432	1,294	-	1,834
IMF quota contributions	-	-	-	-	-	77,472	77,472
Other financial assets	6	2	8	27	17	286	346
Total financial assets	145,537	87,419	262,702	289,989	146,102	81,256	1,013,005
Financial liabilities							
Banknotes and coins in circulation	-	-	-	-	-	400,334	400,334
Accounts of banks Accounts of government and other institutions	- 7.082	-	-	-	-	38,509 40,645	38,509 47,727
Certificates of deposit issued by the NBU	61,867	_	_	_	_	40,045	61,867
Borrowings received	01,007	2.769	-	_	-	-	2,769
Liabilities to the IMF apart from quota contributions Liabilities to the IMF in respect of quota	216,358	2,709	_	_	_	942	217,300
settlement	-	-	-	-	-	77,462	77,462
Other financial liabilities	-	-	-	-	-	574	574
Total of financial liabilities	(139,770)	84,650	262,702	-	-	558,466	846,542
Net gap	(139,770)	(55,120)	207,582	289,989	146,102	(477,210)	166,463
Cumulative gap	(139,770)	84,650	262,702	497,571	643,673	166,463	

As of 31 December 2019, a portion of foreign securities bearing variable interest rates amounted to 13.15% of the total portfolio (31 December 2018: 15.60%).

33 Liquidity Risk

For the purposes of measuring liquidity risk, financial assets are grouped by their contractual term set as of the reporting date for receiving the cash flows to be repaid taking into account the period remaining as of the reporting date to the contractual date of the cash flows repayment. IMF quota contributions are presented as assets on demand, based on Article XXVI of the IMF Agreement, but such presentation does not mean that there are expectations that Ukraine will take advantage of this article. Financial liabilities are grouped by maturity taking into account the remaining contractual maturity as of the reporting date.

The amounts of financial assets and liabilities disclosed in the liquidity risk table below are the contractual discounted cash flows from financial instruments carried at fair value. Derivatives settled on a net basis are included at the net

amounts expected to be paid. Impaired loans are included at their carrying value based on the expected timing of cash inflows.

Foreign securities are included in the table taking into account the remaining contractual maturity as of the reporting date. Judging from historical data, this timing is not significantly different to the expected timing of disposal of such securities.

When the amounts payable are not fixed, such amounts are presented in the liquidity analysis taking into account the conditions at the reporting date. Foreign currency items are translated using the spot exchange rates at the reporting date.

The NBU's liquidity risk position as of 31 December 2019 was as follows:

	On demand and up to 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Over 5 years	Maturity not defined	Total
	monur					()	UAH million)
Financial assets							<i>c,</i> ,
Funds and deposits in foreign currency	85,433	4,087	_	-	_	_	89,520
Foreign securities	11,569	31,704	112,317	347,953	1,315	121	504,979
SDR holdings	234	_	_	_	_	_	234
Domestic securities	6,272	9,667	5,308	47,714	278,230	_	347,191
Loans to banks and other borrowers	473	250	3,441	9,679	_	_	13,843
Domestic public debt IMF quota contributions	- 65,894	27	81	432	1,187	-	1,727 65,894
Other financial assets	4	2	8	159	22	41	236
Total financial assets	169,879	45,737	121,155	405,937	280,754	162	1,023,624
Financial liabilities							
Banknotes and coins in circulation	425,041	_	_	_	_	215	425,256
Accounts of banks	78,444	_	_	_	_	_	78,444
Accounts of state and other institutions	38,982	-	-	-	_	_	38,982
Certificates of deposit issued by the NBU	151,932	-	_	_	_	_	151,932
Loans received	_	_	_	2,369	-	_	2,369
Liabilities to the IMF except IMF quota contributions	2	8,543	7,659	123,521	28,666	2,668	171,059
Liabilities to the IMF with respect to quota settlement	65,886	_	_	_	_	_	65,886
Other financial liabilities	53	3	87	-	-	529	672
Loan commitments	2,000	-	-	-	-	-	2,000
Total financial liabilities	762,340	8,546	7,746	125,890	28,666	3,412	936,600
Liquidity gap arising from financial instruments	(592,461)	37,191	113,409	280,047	252,088	(3,250)	87,024
Cumulative liquidity gap	(592,461)	(555,270)	(441,861)	(161,814)	90,274	87,024	

The NBU's liquidity risk position as of 31 December 2018 was as follows:

	On demand and up to 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Over 5 years	Maturity not defined	Total
						(UAH million)
Financial assets							
Funds and deposits in foreign currency	105,887	10,794	-	-	-	-	116,681
Foreign securities	7,114	16,682	110,744	297,645	685	121	432,991
SDR holdings	100	-	-	-	-	-	100
Domestic securities	7,879	7,082	8,420	48,083	289,972	-	361,436
Loans to banks and other borrowers	9,630	3,517	1,528	7,470	-	-	22,145
Domestic public debt	-	27	81	432	1,294	-	1,834
IMF quota contributions	77,472	-	-	-	-	-	77,472
Other financial assets	4	3	11	173	30	125	346
Total financial assets	208,086	38,105	120,784	353,803	291,981	246	1,013,005
Financial liabilities							
Banknotes and coins in circulation	400,119	-	-	-	-	215	400,334
Accounts of banks	38,509	-	-	_	-	_	38,509
Accounts of state and other institutions	47.727	_	_	_	_	-	47,727
Certificates of deposit issued by the NBU	61,867	-	_	_	-	-	61,867
Loans received	-	_	_	2.769	-	-	2,769
Liabilities to the IMF except IMF quota contributions	3	5,894	11,443	135,864	60,960	3,136	217,300
Liabilities to the IMF with respect to quota settlement	77,462	-	-	-	-	-	77,462
Other financial liabilities	48	4	11	-	-	511	574
Total financial assets	625,735	5,898	11,454	138,633	60,960	3,862	846,542
Liquidity gap arising from financial instruments	(417,649)	32,207	109,330	215,170	231,021	(3,616)	166,463
Cumulative liquidity gap	(417,649)	(385,442)	(276,112)	(60,942)	170,079	166,463	

The amounts stated in the tables below do not correspond to the amounts recorded in the consolidated statement of financial position, since the below information includes maturity analysis of financial liabilities which reflects the total amount of future undiscounted contractual payments (including interest payable).

Repayment periods under contractual undiscounted cash flows from financial liabilities as of 31 December 2019 were as follows:

	On demand and up to 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Over 5 years	Maturity not defined	Total
						((UAH million)
Financial liabilities	· · ·				· · ·		
Banknotes and coins in circulation	425,041	_	_	-	_	215	425,256
Accounts of banks	78,444	-	-	-	_	_	78,444
Accounts of state and other institutions	38,982	_	-	-	_	_	38,982
Certificates of deposit issued by the NBU	152,278	_	-	-	-	_	152,278
Loans received	_	29	87	2,513	_	_	2,629
Liabilities to the IMF except IMF quota contributions Liabilities to the IMF with respect to quota	2	9,041	11,411	133,268	31,272	2,668	187,662
settlement	65,886	_	-	-	_	_	65,886
Other financial liabilities	53	3	87	-	-	529	672
Loan commitments	2,000	-	_	-	-	_	2,000
Total future payments on financial liabilities	762,686	9,073	11,585	135,781	31,272	3,412	953,809

Repayment periods under contractual undiscounted cash flows from financial liabilities as of 31 December 2018 were as follows:

	On demand and up to 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Over 5 years	Maturity not defined	Total
						(U,	AH million)
Financial liabilities							
Banknotes and coins in circulation	400,119	-	-	_	-	215	400,334
Accounts of banks	38,509	_	_	-	_	-	38,509
Accounts of state and other institutions Certificates of deposit issued by the	47,727	-	-	-	-	-	47,727
NBU	62,021	_	-	_	_	_	62,021
Loans received	_	36	108	3,092	_	_	3,236
Liabilities to the IMF except IMF quota contributions	3	6,641	16,937	154,894	68,090	3,136	249,701
Liabilities to the IMF with respect to quota settlement	77,462	_	_	_	_	_	77,462
Other financial liabilities	48	4	11	-	-	511	574
Total future payments on financial liabilities	625,889	6,681	17,056	157,986	68,090	3,862	879,564

34 Contingent Liabilities, Loan Commitments, and Derivative Financial Instruments

Capital Commitments

As of 31 December 2019, the NBU had capital commitments with respect to the acquisition, construction, and improvement of property and equipment and intangible assets totaling UAH 175 million (UAH 118 million as of 31 December 2018).

Loan Commitments

As of 31 December 2019, the NBU had commitments for granting loans to the Deposit Guarantee Fund under an open uncommitted revolving line of credit totaling UAH 2,000 million (the NBU had no loan commitments as of 31 December 2018).

Derivative Financial Instruments

Since October 2013, the NBU has been carrying out transactions with futures for the purpose of regulating the interest rate risk under an Investment Management and Consulting Services Agreement between the NBU and the International Bank for Reconstruction and Development.

As of 31 December 2019, the NBU had 269 long stockexchange interest futures contracts maturing in March 2020, the notional value of which equaled UAH 1,373 million or USD 58 million, and 90 short stock-exchange interest futures contracts maturing from June 2020 to December 2020, the notional value of which equaled UAH 524 million or USD 22 million (as of 31 December 2018, the NBU had 478 long stock-exchange interest futures contracts maturing in March 2019, the notional value of which equaled UAH 2,993 million or USD 108 million, and 258 short stock-exchange interest futures contracts maturing from June 2019 to March 2020, the notional value of which equaled UAH 1,740 million or USD 63 million). Funds for settlements under futures transactions worth UAH 8 million (UAH 10 million in 2018) were measured at fair value and included in funds and deposits in foreign currency (Note 5).

Legal Proceedings

From time to time and in the normal course of business, claims against the NBU occur. As of 31 December 2019 and 31 December 2018, there were no lawsuits that had been filed against the NBU that had a low likelihood of resulting in losses, according to NBU estimates. Accordingly, the NBU made no provisions for liabilities that could arise from these lawsuits.

At the same time, for lawsuits against the NBU that, as the NBU estimated, had a high likelihood of resulting in losses, the NBU made respective provisions (Note 18). The NBU is also a defendant in claims for restoration of some banks. At present, the mechanism for the restoration of banks in Ukraine is not regulated by the law.

35 Fair Value of Financial Assets and Liabilities

The NBU determines the fair value of financial assets and liabilities using available market information, where it exists, and the appropriate valuation methodologies. However, professional judgment is required to interpret market data in order to measure the estimated fair value.

Financial Assets and Liabilities Carried at Fair Value

Financial instruments carried at fair value include foreign securities and derivative financial instruments.

The fair value of foreign securities is based on quoted prices in an active market (Level 1 inputs) or other active market quoted prices (consensus price, etc.) obtained from trading information systems (Level 2 inputs). In the absence of information on quoted prices, the fair value is based on discounted cash flows and Level 3 inputs (the yield of the securities during their initial placement by the issuer and the assumption that the yield will remain unchanged until the maturity date of the relevant securities, taking into account their short maturities).

The fair value of derivative financial instruments is determined on the basis of quoted prices in an active market (Level 1 inputs).

Financial Assets and Liabilities Carried at Amortized Cost

The NBU has determined that the fair value of certain financial assets and liabilities carried at amortized cost does not materially differ from their carrying value for the purposes of disclosing the fair value. These financial assets and liabilities include funds and deposits in foreign currencies, SDR holdings, and IMF quota contributions, other financial assets, banknotes and coins in circulation, accounts of banks, accounts of the state and other institutions, NBU certificates of deposit, liabilities to the IMF, and other financial liabilities.

Financial instruments carried at amortized cost, the fair value of which may differ significantly from their carrying values, include domestic securities, domestic public debt in domestic currency, and loans to banks and other borrowers. None of these financial instruments have an active market.

For the purposes of disclosing in its consolidated financial statements the fair values of financial assets and liabilities for

which no active market exists, the NBU estimates the fair values of such assets and liabilities using the discounted cash flow method. The said model takes into account future interest payments and principal repayments, repayment periods, and discount rate.

For the purposes of estimating the fair value of domestic securities, the NBU uses the following approaches:

for long-term inflation-linked government bonds, Level 2 inputs (spot rates calculated on the basis of the zero-coupon yield curve built using data from actually concluded and executed agreements on domestic government debt securities, using the Svensson parametric model, and the actual consumer price index calculated for one month and compared to the previous month over the period from March 2019 to November 2019), and Level 3 inputs (the December 2019 FOCUSECONOMICS consensus forecast of consumer price indices for the next five years and target consumer price indices established by the NBU for the period from year 6 to year 30)

for other Ukrainian government bonds, Level 2 inputs (spot rates calculated on the basis of the zero-coupon yield curve built using data from actually concluded and executed agreements on domestic government debt securities using the Svensson parametric model)

for bonds of other state institutions, Level 2 inputs (spot rates calculated on the basis of the zero-coupon yield curve built using data from actually concluded and executed agreements on domestic government debt securities using the Svensson parametric model) and Level 3 inputs (risk premiums of securities compared to the risk of government debt securities determined with the use of expert judgment at the level of 1,313 basis points, taking into account the availability of government guarantees in respect of those securities).

To measure the fair value of domestic public debt in domestic currency, the NBU's weighted average rate on all refinancing instruments (Level 3 inputs) is used as the discount rate.

To measure the fair value of loans to banks and other borrowers, the market rate (the NBU's key policy rate) plus 1.5% as of the calculation date (Level 3 inputs) is used as the discount rate. The discount rates used are as follows:

	2019	2018
	Discount rate, % per annum	Discount rate, % per annum
Domestic securities in domestic currency:		
domestic government debt securities	7.43–13.01	7.22-20.41
bonds of other state institutions	28.91	-
Domestic public debt in domestic currency (1994–1996)	14.51	19.22
Loans to banks and other borrowers in domestic currency	15.0	19.5

The following table summarizes the carrying value and estimated fair values of the financial assets which do not appear in the NBU's consolidated statement of financial position at their fair values:

	2019		2018		
	Carrying value Fair value		Carrying value	Fair value	
				(UAH million)	
Domestic securities in domestic currency:					
domestic government debt securities	345,440	332,362	360,744	339,924	
bonds of other state institutions	764	824	-	-	
Total domestic securities not presented at fair value	346,204	333,186	360,744	339,924	
Domestic public debt	1,727	1,307	1,834	1,128	
Loans to banks and other borrowers	13,843	14,068	22,145	21,540	

Taking into account that fair value estimates are based on certain assumptions, it should be noted that the information provided above may not be fully be reflective of the value that could be realized.

The fair value of financial instruments was categorized by levels of fair value hierarchy as follows:

		2019		2018			
	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3	
						(UAH million)	
Assets carried at fair value:							
Funds and deposits in foreign currency (futures)	8	_	_	10	_	-	
Foreign securities carried at fair value	429,937	41,642	33,400	386,894	5,790	40,307	
Domestic securities carried at fair value:							
in foreign currency							
government derivatives	987	_	-	692	-	-	
Assets for which fair value is disc	losed:						
Domestic securities in domestic currency:							
domestic government debt securities	-	199,209	133,153	-	196,241	143,683	
bonds of other state institutions	-	-	824	-	-	_	
Domestic public debt Loans to banks and other	-	-	1,307	-	-	1,128	
borrowers	_	-	14,068	-	-	21,540	

In 2019, there were no significant transfers of financial instruments between Level 1 and Level 2 of fair value hierarchy. In 2019, there were no transfers of financial instruments to or from Level 3 of the fair value hierarchy.

Long-term inflationary domestic government debt securities the fair values of which are disclosed are included in Level 3 of the fair value hierarchy.

National Bank of Ukraine

The change in the fair value of foreign securities that are measured at the reporting date at fair value, and are included in Level 3 of the fair value hierarchy, is presented as follows:

	Fair value of foreign securities that are measured at value through profit or loss and are attributed to Leve of the fair value hierar
	(UAH mill
Foreign securities as of 1 January 2018	68,31
Income / (expenses)	(2,633
Purchases of foreign securities	39,92
Redemptions of foreign securities	(60,997
Sales of foreign securities	(4,294
Foreign securities as of31 December 2018	40,30
Income / (expenses)	(6,113
Purchases of foreign securities	37,36
Redemptions of foreign securities	(38,158
Sales of foreign securities	
Foreign securities as of31 December 2019	33,40

The weighted average modified duration of the financial assets at fair value and are included in Level 3 of the fair value hierarchy (except equity instruments at fair value through profit or loss) was 0.36 as of 31 December 2019 (0.38 as of 31 December 2018). An increase in the yield rates used to determine the fair value of these financial assets as of 31 December 2019 (Level 3 inputs) by 1 basis point would

decrease the fair value of the relevant assets by UAH 121 million (by UAH 151 million as of 31 December 2018), while a decrease in these yield rates by 1 basis point would increase the fair value of these assets by UAH 121 million (UAH 151 million as of 31 December 2018).

36 Presentation of Financial Instruments by Measurement Categories

In accordance with IFRS 9 Financial Instruments, the NBU classifies its financial assets according to the following categories: financial assets measured at fair value through profit or loss and financial assets measured at amortized cost.

All of the NBU's financial liabilities are carried at amortized cost.

As of 31 December 2019, financial assets were broken down into measurement categories as follows:

	Assets at fair value through profit or loss	Assets at amortized cost	Tota
			(UAH millior
Financial assets			
Funds and deposits in foreign currency	8	89,512	89,52
Foreign securities	504,979	-	504,97
SDR holdings	_	234	23
Domestic securities	987	346,204	347,19
Loans to banks and other borrowers	_	13,843	13,84
Domestic public debt	-	1,727	1,72
IMF quota contributions	-	65,894	65,89
Other financial assets	8	228	23
Total financial assets	505,982	517,642	1,023,62

As of 31 December 2018, financial assets were broken down into measurement categories as follows:

	Assets that at fair value through profit or loss	Assets at amortized cost	Tot
			(UAH millio
Financial assets			
Funds and deposits in foreign currency	10	116,671	116,68
Foreign securities	432,991	-	432,99
SDR holdings	_	100	10
Domestic securities	692	360,744	361,43
Loans to banks and other borrowers	_	22,145	22,14
Domestic public debt	-	1,834	1,8
IMF quota contributions	-	77,472	77,47
Other financial assets	13	333	34
Total financial assets	433,706	579,299	1,013,00

37 Related Party Transactions

For the purposes of these consolidated financial statements, parties are considered to be related if the parties are under common control, or if one party has the ability to control the other party or can exercise significant influence over the other party in making financial or operational decisions, as defined by IAS 24 *Related Party Disclosures*. In considering each possible related party relationship, attention is paid to the substance of the relationship, not merely the legal form. The related parties of the NBU include the government, state-controlled entities, key management personnel, etc.

In the normal course of its operations, the NBU conducts transactions with related parties. The year-end balances on these transactions are presented in the table below:

	-		2019			2018	
	Notes	Governmen t and state- controlled entities	Associate s	Other related parties	Government and state- controlled entities	Associates	Other related parties
							(UAH million)
Domestic securities	8	347,191	-	-	361,436	_	_
Loans to banks and other borrowers		11,989	-	-	18,439	-	-
Loans to the Deposit Guarantee Fund	9	-	-	-	1,458	-	-
Provisions for loans to banks and other borrowers		(4,346)	_	_	(4,413)	_	_
Domestic public debt		1,727	-	-	1,834	-	-
Other assets		49	30	-	31	132	-
Accounts of banks		51,564	-	-	16,483	-	-
Accounts of state and other institutions	14	36,278	108	3	40,417	191	3
Accounts of the Deposit Guarantee Fund	14	2,498	-	-	7,082	_	_
Liabilities to transfer distributable profit to the state budget	19	42,722	_	-	64,898	-	_
Certificates of deposit issued by the NBU		56,185	-	-	8,511	-	_
Other liabilities		5	-	-	4	-	-

Other related party transactions include the account balance of the NBU Corporate Nonstate Pension Fund.

The terms of the transactions presented in the table above were as follows:

long-term loans to state-owned banks (included in the loans to banks and other borrowers in the table above) as of 31 December 2019 bore interest rates from 14.25% to 16.00% (from 7.00% to 16.00% as of 31 December 2018)

there was no outstanding debt on loans to the Deposit Guarantee Fund as of 31 December 2019 (loans to the Deposit Guarantee Fund as of 31 December 2018 bore the interest rate of 12.5%) the accounts of the state and other institutions as of 31 December 2019 and 31 December 2018 were noninterest-bearing

the accounts of the Deposit Guarantee Fund bore interest rates of 9.53% as of 31 December 2019 (4.00% as of 31 December 2018)

the balances of required reserves transferred by state-owned banks to correspondent accounts with the NBU (included in accounts of banks in the table above) earned no interest (as of 31 December 2018, no interest was accrued on the balances of required reserves transferred by state-owned banks to the NBU correspondent accounts) (Note 13).

The terms of transactions with the domestic public debt and domestic securities are disclosed in the respective notes.

Income and expense items for transactions with related parties were as follows:

		2019			2018		
	Government and state- controlled entities	Associates	Other related parties	Government and state- controlled entities	Associates	Other related parties	
					(UA	AH million)	
Interest income	34,461	-	-	45,675	-	-	
Interest expenses	(1,998)	-	-	(2,267)	-	-	
Fee and commission income	100	-	-	200	-	-	
Other income	411	76	-	150	29	-	
Staff costs	-	-	(37)	-	-	(29)	
Net decrease in provisions	67	-	-	95	-	-	

In accordance with the Law of Ukraine *On the National Bank of Ukraine*, the NBU provides services to the State Treasury of Ukraine on a free-of-charge basis.

In 2019, the short-term benefits (salary) of key management personnel were UAH 36.5 million, including remuneration to

members of the NBU Council of UAH 12.4 million (in 2018, the short-term benefits (salary) of key management personnel were UAH 29.4 million, including remuneration to members of the NBU Council of UAH 10.6 million). As of 31 December 2019 and 31 December 2018, there were no outstanding loans to key management personnel.

Short-term benefits (salary) of the Chairperson and members of the NBU Council:

Chairperson and members of the NBU Council	2019, UAH million	Time worked in 2019, months	2018, UAH million	Time worked in 2018, months
Bohdan Danylyshyn	1.6	12	1.6	12
Tymofiy Mylovanov	1.0	8	1.4	12
Viktor Koziuk	1.6	12	1.4	12
Vasyl Furman	1.6	12	1.4	12
Vira Rychakivska	1.6	12	1.4	12
Olena Scherbakova	1.6	12	1.4	12
Mykola Kalenskyi	1.6	12	1	9
Oleksandr Petryk	1.6	12	1	8
Vitalii Shapran	0.2	1.5	-	-
Total	12.4		10.6	

Short-term benefits (salary) of the Chairperson and members of the NBU Board:

Chairperson and members of the NBU Board	2019, UAH million	Time worked in 2019, months	2018, UAH million	Time worked in 2018, months
Yakiv Smolii	4.6	12	3.8	12
Kateryna Rozhkova	4.1	12	3.5	12
Roman Borysenko	3.8	12	3.4	12
Dmytro Sologub	3.9	12	3.3	12
Sergii Kholod	3.9	12	1.5	5
Oleg Churiy	3.8	12	3.3	12
Total	24.1		18.8	

38 Events Subsequent to the Reporting Date

In February and March 2020, liabilities of SDR 234 million (UAH 8,271 million at the official exchange rate as of the transaction date, or UAH 8,648 million at the annual exchange rate of the IMF) were repaid to the IMF as scheduled under the EFF program.

In March 2020, the court rejected the NBU's appeal and upheld the decision of Kyiv Economic Court on the lawsuit filed by the Deposit Guarantee Fund against the NBU to recover losses in the amount of UAH 277 million. The NBU believes that this event after the reporting date indicates a higher probability of an outflow of resources in 2020.

26 March 2020 Kyiv, Ukraine